

1988

Nova College Liberal and Professional Studies 1988-89 Catalog

Nova University

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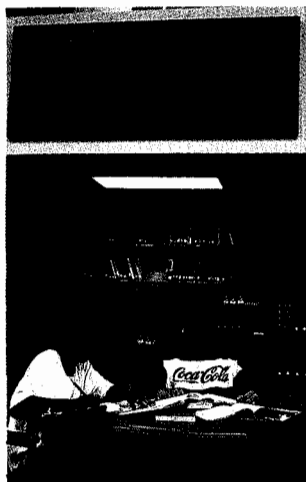
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Nova University, "Nova College Liberal and Professional Studies 1988-89 Catalog" (1988). *Undergraduate Programs Course Catalogs*. 121.
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NOVA

COLLEGE



LIBERAL AND PROFESSIONAL STUDIES

1988-89 CATALOG

in conjunction with one of the Nova College majors. The requirements for this certificate program are as follows:

The student will complete 24 credits of courses with a Latin American and Caribbean emphasis. Appropriate courses taken within the major may satisfy part of these requirements. Spanish language courses at the 200 level or above also may satisfy part of this requirement.

The student will take at least 9 of the 24 required credits outside his or her major.

The student will have to demonstrate competency in an appropriate foreign language. This requirement may be satisfied either through coursework or by examination.

Courses currently offered as part of the Nova College curriculum that are automatically applicable toward the certificate in Latin American and Caribbean Studies are—

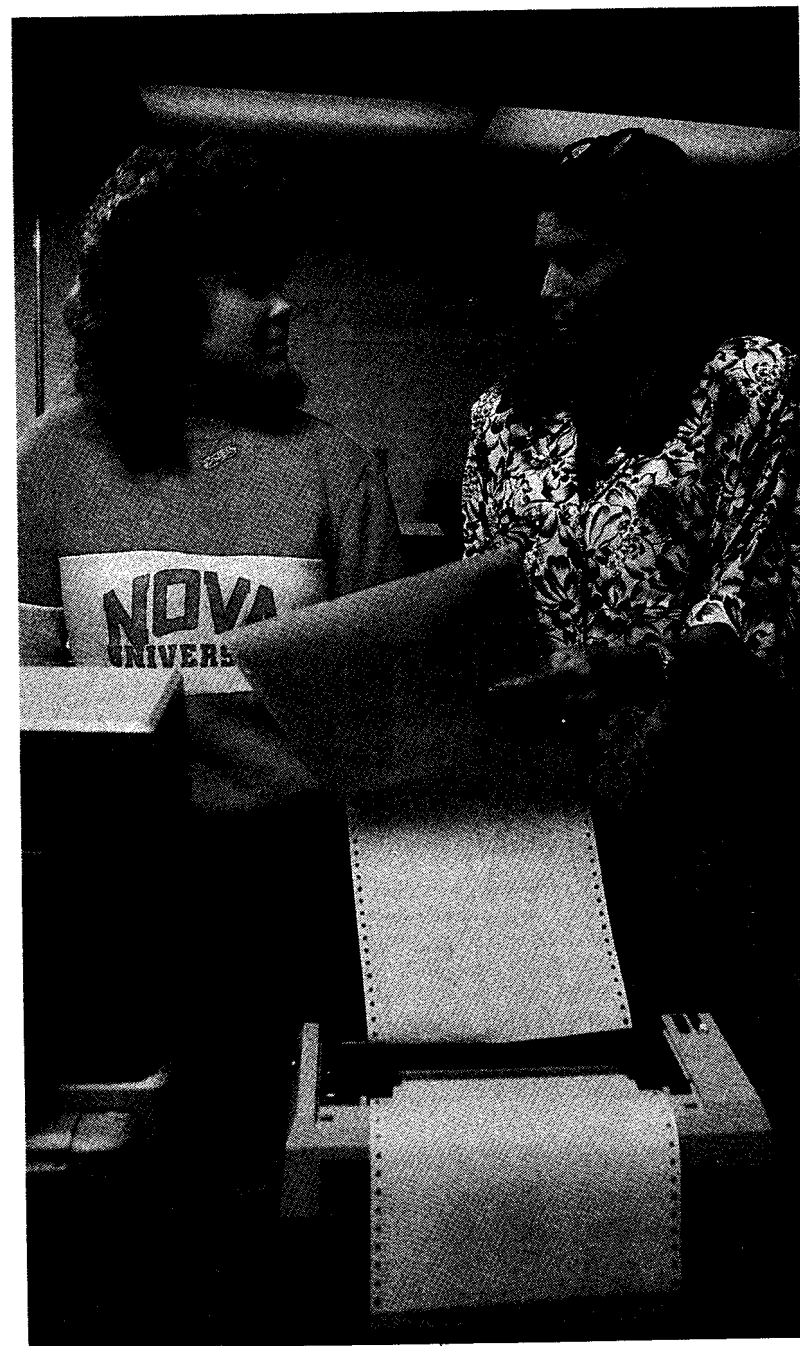
- SOC 112 Human Origins and Diversity
- LAC 213 Latin American and Caribbean Studies
- LAN 223 Intermediate Spanish
- LAC 240 Comparative Legal Systems
- BUS 255 Introduction to International Business
- LGS 261 Cultural Minorities and the Law
- HUM 323 Contemporary Latin American Fiction
- HIS 410 Emerging Nations
- LGS 441 International Law
- LAC 485-488 Field Study in Latin America
- LAC 491-498 Advanced Special Topics

In addition to the above mentioned courses, a large number of existing courses may be approved by the Program Coordinator as applicable toward the certificate in Latin American and Caribbean Studies.

Ocean Studies (This program is presently being developed)

The ocean studies major is designed to prepare students for a career in marine biology, oceanography, mariculture, or coastal zone management. The curriculum consists of a set of core courses in physical and natural science that leads to specialties in marine biology, coastal zone management, or mariculture. The first two specialties are designed as preparation for further graduate study in those areas, while the mariculture specialty leads to a career in marine science.

COURSE DESCRIPTIONS



Course numbers in parentheses indicate that the course was previously offered with a different prefix or course number. The course name in parentheses indicates that the course was previously offered under a different name. See ACT 205 and ACT 207.

ACCOUNTING (ACT)

ACT 205 Principles of Accounting I/3 sem. hrs. (Formerly called Introduction to Financial Accounting; ACT 101, 203, 209) The conceptual framework of accounting including the entity concept, materiality, unit of measure, continuity, and periodicity. Basic double entry bookkeeping including journalizing of transactions, posting, preparing a trial balance, adjusting, closing, and basic financial statement presentation.

ACT 207 Principles of Accounting II/3 sem. hrs. (Formerly called Introduction to Managerial Accounting; ACT 102, 206, 210) A continuation of ACT 205. Includes corporate structure, stockholders, equity, longterm liabilities, department and branch accounting, costing methods, cost-volume-profit analysis, and financial statement analysis. **Prerequisite:** ACT 205.

ACT 303 Cost Accounting/3 sem. hrs. (ACT 111, 211) The role of cost accounting as a tool for managerial decision making. Cost-volume-profit analysis, job order costing, and absorption costing. Application of these skills to the overall operation of a business. **Prerequisite:** ACT 207.

ACT 305 Intermediate Accounting I/3 sem. hrs. (ACT 201) A continuation and expansion of Principles of Accounting. The concepts underlying valuation, accounting for leases, accounting for warranty costs. Application of these concepts to financial statement presentation. **Prerequisite:** ACT 207.

ACT 306 Intermediate Accounting II/3 sem. hrs. (ACT 202) A continuation and expansion of Intermediate Accounting I. The conceptual foundations of sources and applications of funds from both a cash and working capital basis, reporting earnings per share, and accounting for other selected transactions. **Prerequisite:** ACT 305.

ACT 308 Cooperative Education/no credit. Work placement for a period of 16-18 weeks. The placement will be directly related to the student's program of study.

ACT 311 Federal Taxation I/3 sem. hrs. The fundamentals of individual income taxation. A background of accounting courses is not essential for this course. The course may be of special interest to nonbusiness majors. Topics include exemptions, exclusions, and deductions available to the individual. These concepts will aid the student in the preparation of an individual tax return.

ACT 312 Federal Taxation II/3 sem. hrs. An overview of the Internal Revenue Code as it applies to partnerships, corporations, estates, and trusts.

ACT 401 Advanced Accounting/3 sem. hrs. (ACT 301) A continuation and expansion of Intermediate Accounting II. Accounting principles for consolidations and combinations, accounting for branches, accounting for liquidations. Accounting for nonprofit organizations and other selected topics. **Prerequisite:** ACT 306.

ACT 421 Auditing/3 sem. hrs. (ACT 321) An overview of basic auditing concepts, auditing standards and audit programs. Special emphasis on preparing the student for the auditing section of the CPA examination. **Prerequisite:** ACT 305.

ACT 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in accounting that are not included in the regular course offerings. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll for special topics covering differing content.

BUSINESS (BUS)

BUS 101 Introduction to Business/3 sem. hrs. (BUS 105, 1018) A basic course in the study of the private enterprise system. A brief history and background of the system, its components, functions, disciplines, laws. The future of enterprise as a network is discussed.

BUS 113 Business Applications of Microcomputers/3 sem. hrs. Theory and application of programs for microcomputers that are useful in the business environment. Accounting, database management, and information system management programs will be included. Computer laboratory-oriented course. **Prerequisites:** ACT 205, CS 111. **Identical to CS 113.**

BUS 115 Microcomputer Applications/3 sem. hrs. Theory and application of programs for microcomputers that are used in management. Database programs, electronic spread sheets, telecommunications will be included. A laboratory-oriented course. **Prerequisite:** CS 111. **Identical to CS 115.**

BUS 116 Advanced Microcomputer Applications/3 sem. hrs. A continuation of BUS 115. Emphasis on the use of the microcomputer in the management setting. Hands-on use of computer programs, designed specifically for managers. **Prerequisite:** CS 115. **Identical to CS 116.**

BUS 209 Finite Mathematics/3 sem. hrs. (BUS 201, MAT 201) Study of mathematical concepts and models and their practical application to problem solving techniques in the areas of business, social science, and economics. The main topics covered in this course will be review of algebra, graphs of functions, permutations, linear equations, and an introduction to statistics. **Prerequisite:** MAT 102 or higher.

BUS 215 Business Law I/3 sem. hrs. (BUS 201) The fundamentals of business law. Contract law, property law, and negotiable instruments as these areas apply to business organizations.

BUS 216 Business Law II/3 sem. hrs. (BUS 202) A continuation and expansion of Business Law I. Agency law, bailments and the Uniform Commercial Code as these areas apply to business organizations. **Prerequisite:** BUS 215.

BUS 225 Principles of Purchasing and Materials Management/3 sem. hrs. This course is an introduction to the function and role of purchasing and materials management in the organization. It emphasizes the principles, tools, methods, and techniques used in this field.

BUS 235 Computer Applications Environment/3 sem. hrs. A survey of the uses of computers in business and science. Emphasis on specific business applications. Procedures for identifying and selecting hardware and software. **Prerequisite:** CS 165. **Identical to CS 235.**

BUS 275 Introduction to the Hospitality Industry/3 sem. hrs. Introduces students to the history and development of the hospitality industry. Current status of the industry in the local and national economy is examined as are likely future directions of the industry. Issues of the 1980s that affect the hospitality industry are explored.

BUS 305 Organization Theory/3 sem. hrs. (BUS 311) Emphasizes modern organizations, their structure and their systems. The special problems of large research and development organizations; project and/or program management; matrix management; venture management; contingency management. **Prerequisite:** MGT 205.

BUS 308 Cooperative Education/no credit. Work placement for a period of 16-18 weeks. The placement will be directly related to the student's program of study.

BUS 310 Small Business Management/3 sem. hrs. (BUS 351, 210) A study of management problems that relate to the small-scale entrepreneur. The evaluation of options available and decisions to be made in initiating a business: implementing financial and administrative controls, operating systems, pricing and marketing strategy, and understanding the legal environment in which the business must function.

BUS 325 Business, Government, and Society/3 sem. hrs. (BTM 315, POL315) Consideration of relationships between business enterprises and the social and political milieu in which these enterprises operate. New concepts in business ethics and corporate responsibility. Governmental regulation of business.

BUS 332 Procurement and Contracting/3 sem. hrs. This course builds on the concepts of BUS 225 and provides an overview of competitive and noncompetitive procurement principles and techniques. Course content includes the concepts of standardization, "make versus buy" decisions, value analysis, contract administration, and contract incentives. **Prerequisite:** BUS 225.

BUS 355 Introduction to International Business/3 sem. hrs. (BUS 255, MGT 491) Survey of the field that includes the legal and cultural environment of international business; international financial system; management of international operations; personnel and labor relations; international marketing; international economics, trade, and finance; multinational enterprise; international accounting. **Prerequisite:** BUS 101.

BUS 363 Contract and Procurement Law/3 sem. hrs. This course examines the legal aspects of contracts and procurement methodology, including the evaluation of contract clauses and case law. Course content includes contract administration responsibilities, quality assurance, minority contracting requirements, and the Uniform Commercial Code as applied to the field. **Prerequisite:** BUS 332.

BUS 371 Manufacturing Processes/3 sem. hrs. Application to management procedures and techniques to analyze, plan, control, and evaluate production methods and processes in industrial enterprises. Focus on the management of interface between inventory and technology as they relate to labor and capital. Reference will be made to quality assurance functions, sampling plans, and control charts. **Prerequisite:** Approval of Academic Division.

BUS 375 Current Issues in Information Management/3 sem. hrs. Computer topics of importance to the data processing business manager. Flow of data, distributed processing, decision support systems, modeling. Emphasis is on information as a company resource and source information management practices. **Prerequisite:** CS 300. **Identical to CS 375.**

BUS 409 Quantitative Methods/3 sem. hrs. (BUS 321) Emphasis on specific decision-making tools and their applications in various business situations. How to solve problems of cost-volume-profit analysis; linear programming; Markov-chain gaming; the assignment problem; the transportation problem; PERT and other network models; decision theory; inventory problems; computer simulation; and waiting line models. **Prerequisite:** MAT 302.

BUS 437 Negotiations and Price Analysis/3 sem. hrs. This course analyzes and reviews the factors involved in the evaluation of vendor price proposals and the negotiation process. Course content includes negotiation theory and dynamics, price-cost analysis techniques, use of incentives, etc. **Prerequisites:** BUS 225, 332.

BUS 461 Research Methods/3 sem. hrs. (BUS 499) This course introduces a set of conceptual tools and techniques that will be applied to the analysis and proposed solution of real problems in an organization setting. Students will submit a research proposal as part of the course requirements. **Prerequisites:** COM 111 or LAN 111 or LAN 311; MAT 302.

BUS 462 Management Applied Project/3 sem hrs. This is a course registration number for students in the BPM program who must complete an applied project, or Practicum, as part of their degree requirements. Students will meet in peer study-review groups on an occasional basis rather than a regularly scheduled class. **Prerequisite:** BUS 461 and Approved Project Proposal.

BUS 475 Law for Hospitality Managers/3 sem. hrs. Specific law for hotel and restaurant managers. Students are taught the laws and regulations that apply to the hospitality industry. Innkeeper-guest relationships, contracts, civil rights, and liability are emphasized. **Prerequisite:** BUS 215.

BUS 488 Business Strategy and Policy/3 sem. hrs. (BUS 498) An integrative senior year course in which the disciplines of management, finance, behavioral sciences, and marketing will focus on the solution of specific business problems. Case studies will be employed in this course. **Prerequisites:** FIN 301, LAN 201 or COM 203 or LAN 312 and Senior Standing.

BUS 489 Purchasing Policy/3 sem. hrs. This course examines the field of purchasing/procurement relating and integrating it with other functional areas as a vital part of total corporation strategy. Review of the National Purchasing Management exam will be presented as part of this course. **Prerequisites:** BUS 225, 332, 363, 437.

BUS 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in business that are not included in regular course offerings. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll for Special Topics covering differing content.

BUS 499 Independent Study in Business/1-12 sem. hrs. (BUS 197, 297, 397, 497) The student selects, and carries out independently, library and/or empirical research. Faculty supervision is provided on an individual basis. **Prerequisite:** Written Consent of Instructor and Division Director.

COMMUNICATIONS (COM)

COM 111 Critical Reading and Writing I/3 sem. hrs. (COM 1018/COR 101) Emphasis on expository and persuasive writing, writing competency skills, and reading for comprehension. **Prerequisite:** Placement Examination.

COM 112 Critical Reading and Writing II/3 sem. hrs. (COM 1028/COR 102) Emphasis on argumentative writing and analytical reading. Includes an introduction to research techniques, library skills, and the conventions of the research paper. **Prerequisite:** COM 111.

COM 201 Introduction to Journalism/3 sem. hrs. Training in the elements of reporting with emphasis on the modern news story. Students will learn the elements of news, the style and structure of news writing, and the technology of newspaper production. **Prerequisite:** COM 112 or its equivalent.

COM 203 Elements of Nonwritten Communications/3 sem. hrs. (COM 1038) An examination of speech, sign and symbol, and gesture and body language as forms of communication. Students will learn how to analyze and organize the speaking-listening process and how to recognize different forms of interpersonal and group communications.

COM 210 Mass Media/3 sem. hrs. (COM 1048, COR 201) An examination of the impact of technology on the way we receive and process information and images, the basic legal and economic structure of the mass media, historical precedents and events of mass media, the new cultural forms that have emerged with the mass media, and the nature and implications of developing media technologies.

COMPUTER SCIENCE (CS)

CS 111 Computer Literacy/3 sem. hrs. (COM 105, 1058, COR 134) Introduction for the nontechnical person. Computer literacy, principles of computer operation, uses of computers in small businesses, schools, social service agencies, hospitals. Hands-on experience with microcomputers and specialized software.

CS 121 Computer Literacy for the Legal Profession/3 sem. hrs. Introduction for the nontechnical person. Computer literacy, principles of computer operation, uses of computers in the legal profession. Hands-on experience with microcomputers and specialized software utilized by the legal profession. (Credit cannot be obtained for both CS/LEG 121 and CS 111) **Identical to LEG 221.**

CS 113 Business Applications of Microcomputers/3 sem. hrs. Theory and applications of programs for microcomputers that are useful in the business environment. Accounting, database management, and information system management programs will be included. Computer laboratory course. **Prerequisite:** ACT 205, CS 111. **Identical to BUS 113.**

CS 114 Computer Applications for Health Care Administrators/3 sem. hrs. Theory and applications of programs for computers that are useful in the health care environment. The course will include discussion of computerized monitoring and testing in addition to hands-on experience with microcomputers.

CS 115 Microcomputer Applications/3 sem. hrs. Theory and application of programs for microcomputers that are used in management. Database programs, electronic spread sheets, telecommunications will be included. A laboratory-oriented course. **Prerequisite:** CS 111. **Identical to BUS 115.**

CS 116 Advanced Microcomputer Applications/3 sem. hrs. A continuation of CS 115. Emphasis on the use of the microcomputer in the management setting. Hands-on use of computer programs designed specifically for managers. **Prerequisite:** CS 115. **Identical to BUS 116.**

CS 150 Introduction to Computer Organization/3 sem. hrs. An introduction to principles of digital computer operation and organization, data representation, the central processing unit, memory, input/output devices, number systems, logic systems. **Prerequisite:** MAT 102.

CS 160 Fundamentals of Logic Design/3 sem. hrs. An introduction to elementary digital logic circuits, Boolean algebra, Karnaugh maps, digital counters, other basic circuit elements. Number set modules, binary, octal and hexadecimal number systems are investigated and related to digital computing structures. **Prerequisite:** demonstrated competency equivalent to MAT 105 or MAT 150.

CS 165 Fundamentals of Computers and Information Processing/3 sem. hrs. An introduction to various types of computer hardware. Steps in designing, programming, and implementing computer systems. Basic computer terminology.

CS 170 Introduction to Programming/3 sem. hrs. (CS 201) An introduction to good programming techniques including flowcharting, code design, debugging techniques and documentation, problem-solving methods and algorithm development to be used in the design of computer programs. The language BASIC will be taught as part of this course. An introduction to the use of microcomputers and computer terminals. **Prerequisite:** demonstrated competency equivalent to MAT 102, CS 150.

CS 200 BASIC/3 sem. hrs. Continuation of Introduction to Programming including introduction to random and sequential files, program design, modular design, structured programming, large programming design, documentation. **Prerequisite:** CS 170.

CS 210 Fortran/3 sem. hrs. Introduction to the language FORTRAN with reference to the latest standards, special techniques for programming in FORTRAN. **Prerequisite:** CS 170.

CS 220 Business Oriented Language (COBOL)/3 sem. hrs. A study of the COBOL programming language with emphasis on business applications. Topics covered will include program structure and breakdown, report generation, and file handling. **Prerequisite:** CS 170.

CS 221 Computer Applications for the Legal Profession/3 sem. hrs. Theory and application of programs for computers that are used in the legal profession. Hands-on experience with microcomputers and specialized software utilized by the legal profession. **Identical to LEG 221. Prerequisite:** CS 111 or CS 121.

CS 235 Computer Applications Environment/3 sem. hrs. A survey of the uses of computers in business and science. Emphasis on specific business applications. Procedures for identifying and selecting hardware and software. **Prerequisite:** CS 165. **Identical to BUS 235.**

CS 291-299 Special Topics in Computer Science/3 sem. hrs. Topics in computer science that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for Special Topics covering differing content.

CS 300 Computer Security, Ethics, and Auditing/3 sem. hrs. Issues of security, privacy, and control from the viewpoint of the computer user. Emphasis on procedures for protecting systems from unauthorized use, theft, vandalism, and natural disasters. Ethical issues in computer usage. **Prerequisite:** CS 235.

CS 306 Digital Design/3 sem. hrs. Application of the principles of logic design in digital systems. Arithmetic logic units, parallel and serial interfaces, information transfer in a digital system, major hardware components and peripheral devices, digital computers. **Prerequisites:** CS 160, EE 305.

CS 308 Cooperative Education/no credit Work placement for a period of 16-18 weeks. The placement will be directly related to the student's program of study.

CS 315 Advanced COBOL/3 sem. hrs. A continuation of CS 220 with emphasis on advanced computer problem solving. **Prerequisite:** CS 220.

CS 320 Organization of Programming Languages/3 sem. hrs. Development of an understanding of the organization of programming languages, introduction to formal study of programming language specification and analysis, comparison of two or more high level modern programming languages. **Prerequisites:** CS 210, 330, 340.

CS 330 Structured Programming (PASCAL)/3 sem. hrs. Basic principles of structured programming and language foundation. PASCAL will be taught as an example of a structured programming language. **Prerequisites:** CS 170, and CS 210 or 220 recommended.

CS 335 Assemblers and Assembly Language Programming/3 sem. hrs. A detailed analysis of the operation of assemblers. Assembler features, assembly language programming, macrofacilities. Assembly language programs will be written as part of this course. **Prerequisites:** CS 150 or 160 and CS 340.

CS 340 Data Structures/3 sem. hrs. An introduction to the concepts and techniques of structuring data on bulk storage devices, introduction to data structures and file processing including arrays, records, strings, lists, trees, stacks, queues, manipulation, and limitations of files. **Prerequisite:** CS 330.

CS 345 Distributed Data Processing/3 sem. hrs. An examination of the features and impact of distributed systems in the business environment. **Prerequisites:** CS 220.

CS 355 The "C" Programming Language/3 sem. hrs. A study of the "C" Programming language with emphasis on pointer and data structure features of the language as well as specific application material pertinent to editing, library linking, and function dispatching in an IBM(TM) PC environment.

CS 365 Methods of Systems Analysis/3 sem. hrs. An overview of systems development with emphasis on techniques and tools of system documentation and logical system specification. **Prerequisite:** CS 220.

CS 370 Software Design/3 sem. hrs. Algorithm analysis, software design, management of large software projects, functional specification, design and testing phase of large scale projects, quality control. **Prerequisite:** CS 330.

CS 375 Current Issues in Information Management/3 sem. hrs. Computer topics of importance to the data processing business manager. Flow of data, distributed processing, decision support systems, modeling. Emphasis is on information as a company resource and source information management practices. **Prerequisite:** CS 300. **Identical to BUS 375.**

CS 401 Organization of the Computer Environment/3 sem. hrs. Management of the computer environment, personnel, customer interface, budgeting, coordination, policy development, staffing, department interface, hardware and software selection planning, maintenance, and management. **Prerequisite:** Requires Senior standing.

CS 405 Computer Architecture/3 sem. hrs. The analysis and design of computer systems, the interrelation of software and hardware design in the final computer system, interrelation between the operating system and the architecture of computer systems, concurrent processes and resource allocation. **Prerequisite:** CS 306. Suggested prerequisite: CS 335.

CS 420 Operating System Concepts/3 sem. hrs. Methods in the analysis and design of large scale systems, including concepts of semaphores, processed, linear address space, resource allocation, protection, and basic topics in operating system development. **Prerequisite:** CS 460.

CS 451 Database Management—An Information Systems Emphasis/3 sem. hrs. Concepts and structures necessary to design and implement a database management system including logical file organization and data organization techniques, data models, networks, data integrity, and file security. Emphasis is on the logical and user's viewpoint. **Prerequisites:** CS 220, 340. Students may not receive credit for this course and CS 450.

CS 452 Database Management—A Computer Science Emphasis/3 sem. hrs. Concepts and structures necessary to design and implement a database management system, including physical file organization and data organization techniques, data models, networks, data integrity, and file security. Emphasis is on theoretical foundations and physical system implementation while considering logical and user problems. **Prerequisites:** CS 220, 340. Students may not receive credit for this course and CS 450.

CS 460 Systems Programming/3 sem. hrs. A study of various system programming techniques, hardware-software interface, software controlled hardware. A comparison of several existing computer systems will be made. **Prerequisites:** CS 335, 340.

CS 471 Advanced Microcomputer Applications Interfacing/3 sem. hrs. Spreadsheet, database, word processor interfacing with programming languages, and introduction to decision support system construction and expert systems. **Prerequisite:** knowledge of WordStar, dBase and Pascal. **Senior standing required.**

CS 475 EDP Audit and Control/3 sem. hrs. Introduction to EDP auditing with emphasis on EDP controls, audit types, and audit techniques including their effects on computer system development. **Prerequisites:** CS 315, 345.

CS 480 Introduction to Compilers and Interpreters/3 sem. hrs. An introduction to compiler/interpreter design. Topics include lexical analysis, parsing, intermediate code, final code generation, optimization, and error recovery. **Prerequisite:** CS 320.

CS 481 Ada Programming Language/3 sem. hrs. Fundamentals of Ada including details of its historical development and its similarities to Pascal. Emphasis on the special features of Ada including data abstractions, multitasking, exception handling, encapsulation, and generics. **Prerequisites:** CS 330, 340.

CS 482 Introduction to UNIX/3 sem. hrs. Basic concepts on UNIX operating system, system commands, system calls, library functions, system editors, introduction to "C" and Shell programming languages, software development tools, text formatting tools, and system maintenance utilities. **Prerequisites:** CS 335, 340.

CS 485 Theory of Computation/3 sem. hrs. Theoretical approach to computer science. Topics include correctness, automata and turing machines, finite state machines, grammars. **Prerequisites:** CS 210, MAT 210.

CS 490 Directed Project in Computer Science/3 sem. hrs. A major project in computer science will be completed by the student under the direction of a faculty member. **Prerequisite:** Requires Senior standing.

CRIMINAL JUSTICE (CRJ)

CRJ 101 Introduction to Criminal Justice/3 sem. hrs. A survey of the criminal justice system: agencies and processes involved in the administration of justice. Nature of crime.

CRJ 291-299 Special Topics/3 sem. hrs. Topics in criminal justice that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for special topics covering different content.

CRJ 310 Criminology/3 sem. hrs. (CRJ 401) Advanced study of criminal behavior: its classification and prevalence. Emphasis on theories of causes of crime. **Prerequisite:** CRJ 101 or SOC 101.

CRJ 430 Juvenile Crime and Justice/3 sem. hrs. Advanced study of special characteristics and causes of juvenile crime. Principles and practices for its prevention and control. The administration of juvenile justice. **Prerequisite:** CRJ 101 or SOC 101. **Identical to SOC 430.**

CRJ 471 Professional Issues in Criminal Justice/3 sem. hrs. Examines current concerns of those in the field of criminal justice. Typical topics include public perceptions, relevant legislation, ethical issues, professional identity, education, personal development, and future directions. **Prerequisite:** CRJ 101.

CRJ 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in criminal justice that are not included in regular course offerings. Specific content and possible prerequisites are announced in the course schedule for a given term. Students may re-enroll for special topics covering different content.

ECONOMICS (ECO)

ECO 201 Principles of Macroeconomics/3 sem. hrs. (COR 121) A study of basic economic concepts, emphasizing analysis of the aggregate economy. Fundamental concepts of national income and its determination, economic fluctuations, monetary and fiscal policies, and economic growth. Students may not get credit for this course and ECO 315.

ECO 202 Principles of Microeconomics/3 sem. hrs. The processes of price determination output and resources allocation in perfect and imperfect competition. Topics include labor economics, international trade and finance, and alternative economic systems.

ECO 315 Macroeconomics for Managers/3 sem. hrs. (ECO 203, 215) An examination of basic economic concepts emphasizing analysis of current economic issues of the aggregate economy. A historical overview of economic philosophers provides perspective to the modern emphasis. Students may not get credit for this course and ECO 201.

ECO 321 Monetary Theory and Policy/3 sem. hrs. (FIN 321) The structure and function of the American banking system, the Federal Reserve System, and the function of monetary policy in the regulation of the national economy. **Prerequisites:** ECO 201, 202.

ECO 355 International Economics/3 sem. hrs. Theory and practice of trade, comparative advantage, trade barriers, balance of payments, economic development, regional economic integration. **Prerequisites:** ECO 201, 202.

ECO 421 Business Cycles and Forecasting/3 sem. hrs. (FIN 421) Emphasizes the aggregate fluctuation in business, tracing the main stages of development from upswing through prosperity to downswing. The leading theories on the causes of business cycles. How to describe the methods of measuring business cycles and forecasting the cyclical behavior with the aid of indicators. **Prerequisite:** ECO 201.

ECO 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in economics that are not included in regular course offerings. Specific content and possible prerequisites are announced in the course schedule for a given term. Students may re-enroll for special topics covering different content.

EDUCATION (EDU)

EDU 141 Personal Career Development/3 sem. hrs. The process of career development applied to the student identifying vocational interests and aptitudes, obtaining information about occupations, gaining experiences through practicums and cooperative education, and establishing career plans. Useful for students adjusting to the college role. **Identical to** MGT 141 and PSY 141.

EDU 222 Sociological Foundations of Education/3 sem. hrs. A study of major sociological changes of the past 50 years and their impact on education.

EDU 226 Administration of Early Childhood Programs/3 sem. hrs. A survey course identifying the responsibilities of early childhood administration and the competencies needed to discharge them successfully.

EDU 317 Instructional Materials/3 sem. hrs. The use of a variety of materials in an educational program, including literature, media, and independent learning material.

EDU 322 Use of Microcomputers in the Classroom/3 sem. hrs. A course to prepare teachers for the use of microcomputers in the elementary and secondary instructional programs, featuring hands-on experiences in a laboratory setting.

EDU 336 Educational Psychology/3 sem. hrs. Principles of psychology and their application in education. Consideration of learning, individual differences, development, and teacher effectiveness. **Prerequisite:** PSY 111.

EDU 340 Administrative Leadership and Decision Making for Early Childhood/3 sem. hrs. A review of various leadership styles and decision-making techniques as they apply to the administrator's responsibilities in finance and budget, program development and evaluation, and home and school relationships.

EDU 341 Curriculum Decisions of Early Childhood Programs/3 sem. hrs. A study of curricula and activities to meet the needs of the student population, with the subsequent decisions as to appropriate methods, necessary materials, and the use of time and space. Leadership in staff development to implement the decisions is included.

EDU 350 Teaching Styles and Student Achievement/3 sem. hrs. A survey of various teaching styles as used in presentations, activities, evaluations and classroom relationships, and their effect on student achievement.

EDU 351 Computer Applications for the Classroom Teacher/3 sem. hrs. A comprehensive course treating the spectrum of conceptual understanding for computer use in education, technical skills for computer operation as it relates to elementary education, and application of computer skills and teaching techniques to the content areas.

EDU 360 Substance Abuse Intervention in the Schools/3 sem. hrs. This course covers the classification and identification of drugs, as well as the behavioral criteria for recognizing alcohol and drug abuse. Attention is given to prevention, intervention and counseling techniques, as well as legal issues related to student drug use. Also covered is the use of appropriate educational resources and services to assist students who show signs of alcohol or drug abuse. **Identical to** PSY 360.

EDU 361 Educational Strategies for Drug Prevention Programs/3 sem. hrs. This course focuses upon the development of effective drug prevention programs. Appropriate instructional techniques for substance abuse will be covered, as well as an examination of the drug prevention resources available. In addition, methods for evaluating the effectiveness of drug education programs will be examined. **Identical to** PSY 361.

EDU 406 Foundations of Mental Retardation/3 sem. hrs. A study of the biological, psychological, and sociological foundations of mental retardation. **Prerequisite:** EDU 435.

EDU 407 Curriculum for Mental Retardation/3 sem. hrs. A study of the development of curricula appropriate for various levels of mental retardation including the teaching techniques and materials for implementation. **Prerequisite:** EDU 435.

EDU 408 Classroom Procedures for Mental Retardation/3 sem. hrs. A study of management techniques, teaching strategies, and instructional materials appropriate for educational programs for the trainable and educable mentally retarded. **Prerequisite:** EDU 435.

EDU 412 Children's Literature/3 sem. hrs. A study of children's literature, including history, techniques of writing, trends, examples of different forms, and techniques for teaching literature to children.

EDU 413 Instructional Use of Audio-Visual Materials/3 sem. hrs. A general course for teachers at all grade levels. Methods of using audio-visual materials on the instructional program. The selection, production, and evaluation of instructional materials and techniques for their inclusion in curricula.

EDU 429 Educational Programming for the Emotionally Disturbed/3 sem. hrs. A study of program designs for curricula objectives, with delivery formats appropriate for emotionally disturbed students. **Prerequisite:** EDU 435.

EDU 430 Classroom Management of the Emotionally Disturbed/3 sem. hrs. A study of major theoretical models of emotional disturbance in children, and specific classroom strategies suggested by each model. **Prerequisite:** EDU 435.

EDU 432 Precision Teaching and Behavior Modification/3 sem. hrs. The format of a precision program in academics coupled with techniques of behavior modification is evaluated for instructing the emotionally disturbed. **Prerequisite:** EDU 435.

EDU 433 Identification and Remediation of Learning Disabilities/3 sem. hrs. A discussion of the nature and variety of learning disabilities, as well as techniques for their identification and remediation and for the assessment of learning potential. **Prerequisite:** EDU 435.

EDU 434 Learning Assessment/3 sem. hrs. Tests and measurements, the construction and evaluation of tests; methods and theories, including the use of test results, in curriculum selection.

EDU 435 Survey in the Education of Exceptional Children/3 sem. hrs. Identification of the range of defects that cause children to be classified as exceptional. A survey of the problems of such children and the need for providing appropriate educational experiences.

EDU 436 Methods of Teaching Reading in Middle School/3 sem. hrs. Identifying reading skills, evaluating skills, and recognizing and diagnosing reading problems in middle school. A discussion of prescriptive methods and materials to increase the reading performance of students in the middle school.

EDU 438 Educational Assessment of Exceptional Children/3 sem. hrs. Educational assessment, including evaluative and instructional techniques, for exceptional children to provide an objective database for individualized instruction. **Prerequisite:** EDU 435.

EDU 439 Individualization of Diagnosis and Instruction for the Learning Disabled Child/3 sem. hrs. Skills for the diagnosis of various learning disabilities and the planning of individual programs for the learning disabled child. Various models of curricula, and instructional and individual classroom designs for learning disabled children will be discussed with an emphasis on the techniques needed for developing individualized programs for learning disabled children. **Prerequisite:** EDU 435.

EDU 440 Introduction to Language Development and Speech Disabilities/3 sem. hrs. A study of language development and various speech and language disorders in children, with an emphasis on the assessment of individual problems and programing for their remediation within the classroom. **Prerequisite:** EDU 435.

EDU 441 Techniques of Corrective or Remedial Reading/3 sem. hrs. Techniques and instructions for the identification of problems of reading and a discussion of the prescriptive techniques for corrective or remedial procedures in reading. **Prerequisite:** ELE 332 or equivalent.

EDU 447 Teaching: Principles and Practices/3 sem. hrs. Principles of effective teaching, different teaching styles, microtechniques, and use of materials.

EDU 448 Classroom Management/3 sem. hrs. A study of the factors that contribute to classroom management, e.g., curricula, methods and materials, and student and teacher behavior.

EDU 450 The Gifted Student: Nature and Needs/3 sem. hrs. A study of the characteristics of the gifted, identification procedures, and the utilization of assessed strengths and weaknesses to maximize educational and social growth.

EDU 451 Educational Procedures for the Gifted/3 sem. hrs. A study of learning styles of the gifted and matching teaching strategies appropriate to their needs and interests with an attempt to parallel opportunities for cognitive and effective growth.

EDU 452 Internship/9 sem. hrs. Comprehensive review and practical application of educational philosophy, method, and strategy through a seminar and a nine-week supervised studentteaching assignment. **Prerequisite:** Written consent of Program Director.

EDU 455 Guiding and Counseling the Gifted Student/3 sem. hrs. A study of basic counseling techniques to help the classroom teacher guide the gifted student toward optimum academic and social growth. **Prerequisite:** EDU 435.

EDU 458 Classroom Management of the Exceptional Student/3 sem. hrs. (Formerly Classroom Management of the Learning Disabled Child) Identification and implementation of classroom management procedures appropriate for specific exceptionalities. **Prerequisite:** EDU 435.

EDU 463 Principles of Coaching/3 sem. hrs. Emphasis on theory and practice in coaching sports.

EDU 464 Administration of Athletic Programs/3 sem. hrs. A study of the duties and responsibilities of the athletic director for the purpose of improving the athletic program.

EDU 468 Structural Linguistics/3 sem. hrs. A study of the structure of language, basic principles of linguistics. Survey of different approaches and techniques used in language study.

EDU 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in education that are not included in regular course offerings. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll for special topics covering different content.

ELEMENTARY EDUCATION (ELE)

ELE 110 Introduction to Early Childhood Education I/3 sem. hrs. Meeting the physical and intellectual needs of the preschool child. Characteristics of the learning environment conducive to safety and good health, as spelled out in state and local licensing procedures and rules for healthful living; a program to foster the growth of physical, affective, and cognitive competencies in the preschool child.

ELE 111 Introduction to Early Childhood Education II/3 sem. hrs. Fostering language growth and the development of a health selfconcept. Stages in language development and implementation to assure optimum growth for the individual child. Identification of the children's strengths and their potential contributions to their positive self-image.

ELE 112 Introduction to Early Childhood III/3 sem. hrs. Promoting development through management skills and parent/community involvement. The child as a member of his school, home, and play groups; principles of good management that contribute to an orderly, productive classroom setting; establishing mutual respect in teacher/parent relationships and an effective reporting procedure of a child's progress; teacher/staff relationships that assure a commitment to the goals of the center.

ELE 311 Teaching Social Studies in Elementary Schools/3 sem. hrs. Study of content, including conservation of natural resources, methodology, program development, appropriate activities, and evaluative techniques for elementary social studies.

ELE 312 Teaching Science in Elementary Schools/3 sem. hrs. Content and methods for teaching science in the elementary school; "hands-on" approaches, resources, material and ideas drawn from the student's experiences will all be discussed. **Prerequisite: PHY 101 or equivalent.**

ELE 313 Teaching Music in Elementary School/3 sem. hrs. Study of the fundamentals of music, contents of a music program, and special methods of teaching and using music in the elementary school curriculum.

ELE 314 Teaching Art in Elementary School/3 sem. hrs. Contents and methods of teaching art in the elementary school. Problems in the selection of materials and the evaluation of activities, as well as ideas and art projects will be included.

ELE 315 Health and Physical Education in Elementary School/3 sem. hrs. The curriculum, content, and methods in effective health education in the elementary school. Methods and materials for physical education.

ELE 316 Teaching Mathematics in Elementary School/3 sem. hrs. Content, materials, and methods for teaching mathematics in the elementary school. **Prerequisites: MAT 133 and Applied Arithmetic Test.**

ELE 318 Teaching Language Arts/3 sem. hrs. Curriculum content, materials, and methods for teaching the language arts including, but not limited to, spelling, grammar, handwriting, composition, and children's literature.

ELE 331 Reading Skills in Elementary School/3 sem. hrs. An introduction to the teaching of reading in the elementary school; approaches to reading instruction; evaluation of reading skills. **Prerequisite: Basic personal reading skills to be evaluated by the program.**

ELE 332 Reading Evaluation/3 sem. hrs. Diagnosing reading problems, prescribing a variety of methods to increase reading ability. How to use a variety of approaches to the teaching of reading. **Prerequisite: ELE 331 and basic personal reading skills to be evaluated by the program.**

ELE 342 Designing the Elementary School Curriculum/3 sem. hrs. A study of the selection of appropriate curricula to achieve objectives for each of the content areas in the elementary program.

ELE 345 The Child in the Classroom/3 sem. hrs. This course describes principles of teaching and general classroom management with particular emphasis on the relationship of the teacher to the child as an individual learner and the relationship of the teacher to the class as a learning group.

ELE 361 Special Methods of Early Childhood Education I/3 sem. hrs. A study of various approaches to early childhood education.

ELE 362 Special Methods of Early Childhood Education II/3 sem. hrs. A study of the methods and materials in early childhood education with emphasis on the learning process. Kindergarten observation will be included in this course.

SECONDARY EDUCATION (SEC)

SEC 311 Teaching Social Studies in Secondary School/3 sem. hrs. Content and methods for teaching social studies in the secondary grades. Program development, appropriate activities and evaluation techniques will be discussed. Development of teaching skills and analysis of materials, methods, and programs for teaching social studies in the secondary schools. Reading skills necessary for the use of appropriate materials in this content area will be identified.

SEC 312 Teaching Science in Secondary School/3 sem. hrs. Content and methods for teaching science in the secondary school: "hands-on" approaches, resources, material, and ideas drawn from the student's experiences will all be discussed. Development of teaching skills and analysis of materials, methods, and programs for teaching science in the secondary school. Reading skills necessary for the use of appropriate materials in this content area will be identified.

SEC 313 Teaching Music in Secondary School/3 sem. hrs. Study of the fundamentals of music, contents of a music program, and special methods of teaching and using music in the secondary school curriculum. Development of teaching skills and analysis of materials, methods, and programs for teaching music in the secondary schools. Reading skills necessary for the use of appropriate materials in this content area will be identified.

SEC 314 Teaching Art in Secondary School/3 sem. hrs. Contents and methods of teaching art in the secondary school. Problems in the selection of materials and the evaluation of activities as well as ideas and art projects will be included. Development of teaching skills and analysis of materials, methods, and programs for teaching art in secondary schools. Reading skills necessary for the use of appropriate materials in this content area will be identified.

SEC 315 Health and Physical Education in Secondary School/3 sem. hrs. Curriculum, content, and methods in effective health education in the secondary school. Methods and materials for physical education. Development of teaching skills and analysis of materials and methods in programs for teaching health and physical education in the secondary schools.

SEC 316 Teaching Mathematics in Secondary School/3 sem. hrs. Content, materials, and methods for teaching mathematics in the secondary school. Development of teaching skills and analysis of materials, methods, and programs for teaching mathematics in the secondary school. Reading skills necessary for the use of appropriate materials in this content area will be identified.

SEC 320 Teaching Foreign Language in Secondary School/3 sem. hrs. Content and methods of teaching foreign language in the secondary school. Language development and expression. Analysis of materials, methods, and programs for teaching foreign language in the secondary school. Reading skills necessary for the use of appropriate materials in this content area will be identified.

SEC 322 Teaching Business in Secondary School/3 sem. hrs. Teaching business subjects in the secondary school. Methods and materials, program development, evaluation techniques, resources, and teaching principles will all be discussed. Reading skills necessary for the use of appropriate materials in this content area will be identified.

SEC 323 Teaching English in Secondary School/3 sem. hrs. Content and methods of teaching English in the secondary school. Language development and expression. Development of teaching skills and analysis of materials, methods, and programs for teaching English in the secondary school. Reading skills necessary for the use of appropriate materials in this content area will be identified.

SEC 324 Teaching Speech in Secondary School/3 sem. hrs. Content and methods of teaching speech in the secondary school including fundamentals, discussion and debate, and drama. **Prerequisite:** 18 hrs. in speech.

ELECTRICAL ENGINEERING (EE)

EE 210 Networks I/3 sem. hrs. Definitions of charge, current, voltage, resistance, capacitance, and inductance. Ohm's law, Kirchhoff's laws, nodal analysis, and mesh analysis. Principles of superposition, maximum power theorem, Thevenin's theorem and Norton's theorem. **Prerequisites:** PHY 150, MAT 220.

EE 255 Engineering Laboratory I/1 sem. hr. Basic laboratory to complement Networks I. **Prerequisite or Corequisite:** EE 310.

EE 305 Electronics for Computer Science Majors/3 sem. hrs. An introduction to network analysis and electronic circuitry. Definitions of circuit parameters and components: voltage, current, resistance, capacitance, and inductance. Fundamental circuit analysis techniques, series and parallel combinations of components, transistor and diodes characteristics and their applications in logic circuits, differences in existing manufacturing technologies for VLSI such as C-MOS, N-MOS, and PMOS. Intended as a special survey course for CS majors but will not meet requirements for EE or CE majors.

EE 308 Cooperative Education/no credit. Work placement for a period of 16-18 weeks. The placement will be directly related to the student's program of study.

EE 310 Networks II/3 sem. hrs. Phasors, sinusoidal steady-state analysis, rms value, average power, balanced three-phase circuits, resonance, frequency response, two-port networks, and Laplace transforms. **Prerequisites:** EE 210, MAT 310.

EE 330 Electronics I/3 sem. hrs. Introduction to the physical theory of semiconductor devices, diodes, diode circuit applications, transistor characteristics, transistor equivalent circuits, and single-stage amplifiers. **Prerequisite:** EE 310.

EE 335 Engineering Lab II/1 sem. hr. Laboratory work to complement electronics theory course. **Prerequisite or Corequisite:** EE 330.

EE 340 Electronics II/3 sem. hrs. Analysis and design of single-stage and multistage amplifiers, difference amplifiers, and operational amplifiers. Frequency response and other performance criteria with feedback. Oscillators. **Prerequisite:** EE 330.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 104 English as a Second Language/3 sem. hrs. Intended for students from non-English backgrounds who have been admitted to Level IV of the Intensive English Program. Credit awarded for successful completion of Level IV subject matter: reading and writing skills at a level sufficient for study at a college or university where English is the language of instruction, and speaking/listening skills at an advanced, pre-professional level.

FINANCE (FIN)

FIN 203 Financial and Accounting Management in Health Care/3 sem. hrs. (HCS 403) Using accounting information to make managerial decisions. Topics include third party payers, volume forecasting, budgeting procedures, and rate setting techniques. Offered in HCS only.

FIN 213 Personal Finance/3 sem. hrs. (FIN 101) Survey of personal financial strategy. Provides guidelines in many areas including borrowing money, investments, insurance, home ownership taxes, and consumer rights.

FIN 301 Corporation Finance/3 sem. hrs. (FIN 211) Financial management as it applies to organizations. Ratio analysis, leverage, cash budgeting, capital structure, and other concepts of financial management applied to business organizations. **Prerequisite:** ACT 205.

FIN 311 Financial Management/3 sem. hrs. A continuation and expansion of Corporation Finance. Present value analysis, rate of return, and other techniques used in the evaluation of investment alternatives. **Prerequisite:** FIN 301.

FIN 315 Banking and Financial Institutions/3 sem. hrs. Nature of the operation in commercial banks, savings and loan associations, and savings banks. Structure and function of the loan, mortgage, bond, investment, trust, marketing, audit, and other departments within the institutions. Impact of federal and state agencies and their regulations upon these institutions.

FIN 411 Principles of Investments/3 sem. hrs. (FIN 331) Investment management is emphasized including financial statements and portfolio management. How to: analyze financial statements, use rating services such as Moody's and Standard and Poor's, and compare growth and income investments. **Prerequisite:** ECO 201.

FIN 455 International Finance/3 sem. hrs. International monetary systems, foreign exchange markets, exchange rates, international financial institutions, capital markets. **Prerequisite:** FIN 301.

FIN 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in finance that are not included in regular course offerings. Specific contents and prerequisites are announced in the course schedule for a given term. Students may re-enroll for Special Topics covering differing content.

GENERAL STUDIES (GEN)

GEN 327 Respiratory Care for Health Professionals/3 sem. hrs. A review and update of knowledge and skills of health professionals in management and care of the adult with respiratory problems. **Prerequisite:** A professional health license; employment in a health agency.

GEOGRAPHY (GEO)

GEO 205 Survey of Geography/3 sem. hrs. Study of geographic characteristics, area relationships, and major regional problems and their impact on the western world. Study of physical, human, economic, and political resources.

GEO 222 The Modern City/3 sem. hrs. Origins of the city. Cities as physical, social, and economic systems. Comparative studies of cities. **Identical to SOC 222.**

GEO 226 Conservation of Natural Resources/3 sem. hrs. (SSI 426) Study of the natural resources within the framework of the manenvironment system. Included are problems relating to pollution, populations, technology, growth, conservation of the environment and developmental planning as they relate to the various geographic areas of the western world and the nonwestern world. **Identical to PHY 226.**

GEO 228 Introduction to Oenology: The World of Wines/3 sem. hrs. Study of major wine regions of the western world. Examines fundamentals of wine history, vine cultivation, and wine production. Course will teach students about the varieties of wines from different wine regions and will provide students with guidelines for selecting and enjoying wines for various occasions. **Prerequisite:** Legal drinking age.

GEO 291-299 Special Topics/3 sem. hrs. Topics in geography that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for Special Topics covering differing content.

GEO 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in geography that are not included in regular course offerings. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll for Special Topics covering different content.

HISTORY (HIS)

HIS 103 American History to 1865/3 sem. hrs. (HIS 201, SSI 201) American history from its colonial origins through the Civil War. Special emphasis is given to analyzing and evaluating the major forces and ideas that have shaped American political, social, and economic life.

HIS 104 American History Since 1865/3 sem. hrs. (HIS 202, SSI 202) American history from Reconstruction to the present. Special emphasis is given to analyzing and evaluating the major forces and ideas that have shaped American political, social, and economic life.

HIS 105 The American Experience/3 sem. hrs. (COR 104) An examination of several of the key structures and ideas that have shaped the development of the United States as a particular political, social, and cultural entity.

HIS 210 Roots of Western Society/3 sem. hrs. (COR 103, HIS 101) A historical examination of western society prior to the rise of modern nations emphasizing such interdisciplinary subjects as politics, social order, economics, and the religious and philosophical ideas that have created the western heritage.

HIS 211 Modern Western Society/3 sem. hrs. (Formerly called History of Western Civilization Since 1648; HIS 102, SSI 102) A historical examination of modern western society since the rise of modern nations emphasizing political, social, and economic movements, and the religious and philosophical ideas that have shaped its development.

HIS 291-299 Special Topics/3 sem. hrs. Topics in history that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for Special Topics covering differing content.

HIS 310 History of Political Thought/3 sem. hrs. (POL 401) A study of political philosophy from the ancient times to the present. To include the major philosophical schools and their spokesmen. Presented within the context of significant historical trends. **Identical to LGS 310 and POL 310.**

HIS 321 The Great Individual in History/3 sem. hrs. (HUM 380) The role of the great individual in historical events. Included is an examination of the qualities which make the great individual and the extent to which the great individual influences the course of history.

HIS 330 History of Political Thought/3 sem. hrs. A study of political philosophy from the ancients to the present. To include the major philosophical schools and their spokesmen. Presented within the context of significant historical trends. **Identical to LGS 330 and POL 330.**

HIS 410 Emerging Nations/3 sem. hrs. Overview of Africa, China, and the Middle East; their peoples, states, and geography. The emergence of national political systems and stratified societies, changing economic and population patterns, and the conflict between authoritarian and revolutionary approaches to modernization. Comparison and contrast will be drawn to the Latin American and Caribbean experience. **Identical to LAC 410.**

HIS 427 Florida History/3 sem. hrs. (SSI 427) An in-depth survey of Florida history from 1500 to the present. **Prerequisite:** HIS 201, 202 or consent of instructor.

HIS 460 Studies in Revolution/3 sem. hrs. (SSI 460) Major forces that have shaped the revolutionary impulse from the 18th through the 20th century. Emphasis upon the great revolutions: American, French, Russian, Chinese—the background, the underlying reasons, ideals, patterns of their growth, and their effects upon the course of history. **Identical to POL 460.**

HIS 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in history that are not included in regular course offerings. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll for Special Topics covering different content.

HUMANITIES (HUM)

HUM 105 Humanities I/3 sem. hrs. (COR 105, HUM 1018, 1028) An examination of verbal and visual arts, architecture, theater, film, dance, poetry, and music. Students will study the works of accomplished artists and also work creatively in order to enhance their appreciation and understanding of the nature and use of aesthetic works.

HUM 171 Nova Community Singers I/1 sem. hr. Participation in the Community Singers requires attendance at rehearsals and group performances. **Prerequisite: Audition.**

HUM 172 Nova Community Singers II/1 sem. hr. Continued participation in Community Singers. Rehearsals and performances. **Prerequisite: Audition.**

HUM 173 Nova Community Singers III/1 sem. hr. Continued participation in Community Singers. Rehearsals and performances. **Prerequisite: Audition.**

HUM 201 Man and His Society/3 sem. hrs. (HUM 101) An interdisciplinary study of humanistic values and insights, focusing on the principal questions of man and his place in society. Drawing from thought in literature, drama, philosophy, and poetry, the course seeks to find the balance among the individual, his desires, and the requirements of society.

HUM 202 Man As An Individual/3 sem. hrs. (HUM 102) An interdisciplinary humanities approach to the profound questions that confront man in the process of evolution. The meaning of individual responsibilities, individual freedom, the nature and meaning of one's mortality, and the place of virtue and destiny (or fate) in one's life.

HUM 204 Humanities II/3 sem. hrs. (COR 202, HUM 2018, 2028) An examination of literary works to investigate philosophical themes such as how nature and good are affected by culture, existentialism, utopia/dystopia, Marxism, and autobiographical representations. **Prerequisite: COM 111.**

HUM 210 Freedom and Totalitarianism/3 sem. hrs. (HUM 200, 411) An interdisciplinary humanities approach to the philosophical, psychological, and social aspects of freedom, totalitarianism, and related issues. Special interest in trends of modern society.

HUM 240 The Theatre Arts/3 sem. hrs. (HUM 217) The arts of the theater: drama, music, dance, play production; with study of plays representing major theatrical trends.

HUM 254 Introduction to Film Criticism/3 sem. hrs. (HUM 354) An examination of film as an art form. Topics include the "grammar" of film, film genres, the documentary, the avant garde film, and critical approaches to film. **Prerequisite: COM 111.**

HUM 260 Women and Law/3 sem. hrs. (HUM 314) This course examines sex-based discrimination in American society. It includes a historical/sociological analysis of the evolution of laws affecting women in employment, education, health and welfare, property ownership, and criminal justice. It also investigates public policy issues that affect women's lives. The course focuses on the role of the law to promote or hinder constructive social change. **Identical to LGS 260.**

HUM 263 Law and Popular Culture/3 sem. hrs. This course examines how the legal system is presented in various popular media, particularly film. Attention will be paid to the conflict between the aesthetic requirements, the medium in question, and actual practices of the legal profession. **Identical to LGS 263.**

HUM 291-299 Special Topics/3 sem. hrs. Topics in humanities that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for Special Topics covering differing content.

HUM 301 Art History/3 sem. hrs. (HUM 183) A survey of art history stressing how the arts reflect the culture in which they are created.

HUM 310 The American Character/3 sem. hrs. (SSI 356) The nature of the American character within the context of modern personality theory, seeking the underlying social and historical forces that have shaped the American. An evaluation of character values expressed in certain strands of American philosophy and literature.

HUM 312 Women's Studies/3 sem. hrs. An examination of women's roles in society, the history of those roles through feminist perspectives in the humanities and arts, and the nature and significance of women's contribution to society. **Prerequisite: COM 111.**

HUM 315 Philosophical Issues/3 sem. hrs. A study of the various philosophical schools centering on such questions as: what is the nature of man; what is reality; how do we know; what is true; what is beautiful; what is right.

HUM 318 Ethical Issues in Health Care/3 sem. hrs. (HCS 301) Surveys the concepts, issues, conflicts, and technical decisions with moral problems in health care. Identification of problems health care professionals face in human, moral, and ethical conflicts. Offered in HCS only.

HUM 320 Principles of Efficient Thinking/3 sem. hrs. Everyman's Logic: the principles of analytical and critical thinking including deduction, induction, principles and clear statement, valid and reliable reasoning, fallacies of argument and debate, and the methods by which theories and laws are established.

HUM 321 Ethical and Moral Judgements/3 sem. hrs. Study and comparison of major writers on ethics. Includes discussion of the problems of making ethical and moral judgments; the conflicts between right and wrong, good and evil; and ways of resolving moral and ethical dilemmas.

HUM 315 Philosophical Issues/3 sem. hrs. A study of the various philosophical schools centering on such questions as: what is the nature of man; what is reality; how do we know; what is true; what is beautiful; what is right.

HUM 318 Ethical Issues in Health Care/3 sem. hrs. (HCS 301) Surveys the concepts, issues, conflicts, and technical decisions with moral problems in health care. Identification of problems health care professionals face in human, moral, and ethical conflicts. Offered in HCS only.

HUM 320 Principles of Efficient Thinking/3 sem. hrs. Everyman's Logic: the principles of analytical and critical thinking including deduction, induction, principles and clear statement, valid and reliable reasoning, fallacies of argument and debate, and the methods by which theories and laws are established.

HUM 321 Ethical and Moral Judgements/3 sem. hrs. Study and comparison of major writers on ethics. Includes discussion of the problems of making ethical and moral judgments; the conflicts between right and wrong, good and evil; and ways of resolving moral and ethical dilemmas.

HUM 322 Science and Modern Thought/3 sem. hrs. An examination of the role of science in the modern world including the nature of the scientific object, the nature of the scientific method and scientific revolutions, the relation of scientific revolutions, the relation of science to other modes of knowing, and the relation of science to technology. **Prerequisite:** COM 111.

HUM 323 Contemporary Latin American Fiction/3 sem. hrs. A survey of Latin American fiction from 1940 to present. Lectures in English; students may read books and write papers in English or Spanish. **Prerequisite:** COM 112 or its equivalent. **Identical to LAC 323.**

HUM 326 Law and American Culture/3 sem. hrs. Explores the relationship of law to American culture at different historical moments. Emphasis placed upon the cultural values, world view, and assumptions of the culture as it shapes the legal mind. **Identical to LGS 326.**

HUM 351 American Literature/3 sem. hrs. (HUM 251) Survey of American literature with emphasis on the growth of American thought as expressed in the writings of selected American authors.

HUM 352 English Literature/3 sem. hrs. (HUM 261) A survey of selected English classics with a focus on relevance for modern understanding. Literature as an expression of various periods is explored within a casual discussion format.

HUM 353 Films as Literature/3 sem. hrs. An examination of the medium for literary works. Includes viewing of representative films.

HUM 375 Music Through History/3 sem. hrs. An interdisciplinary approach that introduces the student to the basic structure of musical forms, as well as the evolution of these forms, and the relationship between musical evolution and basic philosophical and historical trends. The music of each period will be listened to and the students will be introduced to the major composers and works of each period.

HUM 381 Art and Society/3 sem. hrs. A study of painting, sculpture, architecture, film, and music in the period from Baroque to modern times. Focuses on the relationship between artistic style and expression and the historical climate.

HUM 426 Law and the American Mind/3 sem. hrs. The study of the development of American jurisprudence and legal thought within the context of the American intellectual climate. The course seeks the relationship between the patterns of legal thought and the changing American mind. **Identical to LGS 426.**

HUM 451 Eastern Thought/3 sem. hrs. Study of the major philosophical and religious systems of thought from East and South Asia, such as Hinduism, Buddhism, Confucianism, and Taoism. Includes discussion of the relevant history and cultural background.

HUM 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in humanities that are not included in regular course offerings. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll for Special Topics covering different content.

LANGUAGE AND COMPOSITION (LAN)

LAN 100 Language Arts Lab/3 sem. hrs. A review of basic writing skills emphasizing usage and organization based on reading and writing assignments. To prepare students for LAN 111.

LAN 111 College Composition I/3 sem. hrs. Instruction in the principles and skills of effective expository and persuasive writing with competence. **Prerequisite:** Placement examination.

LAN 112 College Composition II/3 sem. hrs. A continuation of LAN 111 that includes instruction in use of the library and requires the student to develop a documented research paper. **Prerequisite:** LAN 111.

LAN 123 Elementary Spanish/6 sem. hrs. (LAN 121/122) Essentials of Spanish language with emphasis on grammar, vocabulary, writing, and oral skills. Introduction to Spanish culture.

LAN 150 Intensive English—Level I/3 sem. hrs. The beginning level of instruction in English as a foreign language. The course consists of classes in each of the three skill areas of the language—conversation, writing, and reading. It is designed for students who possess very limited or no knowledge of English. Offered only at Panama Center.

LAN 201 Fundamentals of Public Speaking/3 sem. hrs. (HUM 201) Training and practice in the fundamentals of speech including methods of obtaining and organizing materials and of presenting speeches effectively.

LAN 211 Intermediate Expository Writing/3 sem. hrs. A workshop course for students seeking to extend their command of exposition, argumentation and persuasion, and their mastery of prose style. **Prerequisite:** COM 112.

LAN 223 Intermediate Spanish/6 sem. hrs. (LAN 221/222) Readings in Spanish literature and culture. Study of Spanish idioms and syntax. Further development of oral and written Spanish. **Prerequisite:** LAN 123.

LAN 250 Intensive English—Level II/3 sem. hrs. The lower intermediate level of instruction in English as a foreign language. The course consists of classes in the three skill areas of the language and is designed for students who already possess certain minimal skills in English. Offered only at Panama Center.

LAN 291-299 Special Topics/3 sem. hrs. Topics in language that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for special topics covering different content.

LAN 301 Oral Interpretation/3 sem. hrs. (HUM 205) Relation of appreciation of literature to oral interpretation; evaluation and analysis of selections of prose and poetry from the viewpoint of oral reading; basic techniques of reading aloud. **Prerequisite:** LAN 201.

LAN 302 Creative Writing: Poetry/3 sem. hrs. An examination of the fundamentals of writing poetry; learning to use metrical language and seeking the universal in individual human experience. Students will read a wide variety of contemporary poems and will attempt to develop their own poetic language. **Prerequisite:** COM 111.

LAN 311 Writing for the Professions/3 sem. hrs. (Formerly Business Communication) A survey of English composition skills and their applications to various writing assignments. The course emphasizes the selection and employment of appropriate styles for functional uses of written communication. Includes writing competency exam and research paper. **Prerequisite:** LAN 111.

LAN 312 Public Communication for the Professions/3 sem. hrs. Emphasis on public communication skills required of the person in business or other professions. Topics include: public speaking, conference speaking, visual and audio aids, listening, and public interviews. **Prerequisite:** LAN 311.

LAN 350 Intensive English—Level III/3 sem. hrs. The higher intermediate level of instruction in English as a foreign language. The course consists of classes in the three skill areas of the language and is designed for students who possess more than minimal skills in English. Offered only at Panama Center.

LAN 450 Intensive English—Level IV/3 sem. hrs. The advanced level of instruction in English as a foreign language. The course consists of classes in the three skill areas of the language and is designed for students who already possess average skills in English. Offered only at the Panama Center.

LAN 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in language that are not included in regular course offerings. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll for Special Topics covering different content.

LATIN AMERICAN AND CARIBBEAN STUDIES (LAC)

LAC 213 Latin American and Caribbean Studies/3 sem. hrs. (COR 113) Latin America and the Caribbean: its peoples, states, and geography. The emergence of national political systems and stratified societies, changing economic and population patterns, and the conflict between authoritarian and revolutionary approaches to modernization.

LAC 240 Comparative Legal Systems/3 sem. hrs. A study of the interrelationship between cultures and legal systems; how legal systems develop as a response to and expression of the cultures from which they derive. Identical to LGS 240.

LAC 261 Cultural Minorities and the Law/3 sem. hrs. A study of the position of traditional and black societies within the legal systems of American nations. Topics to be discussed will include the relationship between American Indians and American justice, the legal position of blacks in American societies, and the legal position of Mexican-Americans in North American society from 1848 to present. Identical to LGS 261.

LAC 323 Contemporary Latin American Fiction/3 sem. hrs. A survey of Latin American fiction from 1840 to present. Lectures in English; students may read books and write reports in English or Spanish. Identical to HUM 323.

LAC 485-488 Field Study in Latin America/3-12 sem. hrs. (SOC 485-488) A field experience relating to selected topics in Latin American and Caribbean Studies. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll in Field Study experience covering different topics and cultures.

LAC 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in Latin American and Caribbean studies that are not included in regular course offerings. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll for special topics covering different content.

LEGAL ASSISTANT/PARALEGAL STUDIES (LEG)

LEG 121 Computer Literacy for the Legal Profession/3 sem. hrs. Introduction for the non-technical person. Computer literacy, principles of computer operation, uses of computers in the legal profession. Hands-on experience with microcomputers and specialized software utilized by the legal profession. (Credit may not be obtained for both CS/LEG 121 and CS 111) **Identical to CS 121.**

LEG 215 Introduction to Law and the Legal Profession/3 sem. hrs. Introduction to the structure and basic decisional processes of the American legal system; the role of the lawyer and the legal assistant in private firms, government agencies, and business; fundamentals of legal interviewing, law office structure, and management.

LEG 221 Computer Applications for the Legal Profession/3 sem. hrs. Theory and application of programs for computers that are used in the legal profession. Hands-on experience with microcomputers and specialized software utilized by the legal profession. **Identical to CS 221. Prerequisite:** LEG 121 or permission of coordinator.

LEG 225 Legal Fundamentals I/3 sem. hrs. Fundamentals of business law; basic principles of contracts, real estate law, business organizations, and wills and trusts.

LEG 226 Legal Fundamentals II/3 sem. hrs. Basic principles of tort law, criminal law, family and juvenile law.

LEG 325 Legal Research and Writing/3 sem. hrs. A study of the primary and secondary sources of Anglo-American law with emphasis on the function of the law library and the acquisition of research skills (including the use of computer assisted research). An introduction to the techniques of presenting the results of research in acceptable written form.

LEG 335 Legal Documents and Drafting/3 sem. hrs. A workshop to develop skills in writing and preparing necessary documents, i.e., corporate papers, real estate forms, wills, bankruptcy. An introduction to civil procedure and preparation of motions, pleading, orders, etc.

LEG 345 Fundamentals of Litigation and Advocacy/3 sem. hrs. Anatomy of a law suit. Processes and practices relative to litigation in state and federal courts. Preparation for trial; civil and criminal procedure and use of required reference materials such as Florida Rules of Civil and Criminal Procedure.

LEGAL STUDIES (LGS)

LGS 201 Law in Action: Introduction to Legal Reasoning/3 sem. hrs. (BUS 1028, LAW 201) Introduction to the structure and basic decisional processes of the American legal system. Course material examines the central issues and processes of the legal system in the perspective of their everyday working relationships, courts works, how to read and understand statutes, and analyzing constitutional law. **Prerequisite: COM 112.**

LGS 210 The Legal Profession/3 sem. hrs. (LGS 310) A study of the historical and social development of the legal profession in America from the colonial period to the present with emphasis on the structure of legal education, ethical standards, and the public policy role of lawyers. **Prerequisite: LGS 201.**

LGS 240 Comparative Legal Systems/3 sem. hrs. A study of the interrelationship between cultures and legal systems; how legal systems develop as a response to and expression of the cultures from which they derive. Identical to LAC 240.

LGS 260 Women and Law/3 sem. hrs. (LGS 314) This course examines sex-based discrimination in American society. It includes a historical/sociological analysis of the evolution of laws affecting women in employment, education, health and welfare, property ownership, and criminal justice. It also investigates public policy issues that affect women's lives. The course focuses on the role of the law to promote or hinder constructive social change. **Identical to HUM 260.**

LGS 261 Cultural Minorities and the Law/3 sem. hrs. A study of the position of traditional and black societies within the legal systems of American nations. Topics to be discussed will include the relationship between American Indians and American justice, the legal position of blacks in American societies, and the legal position of Mexican-Americans in North American society from 1848 to present. Identical to LAC 261.

LGS 262 Children and the Law/3 sem. hrs. A survey on the philosophical, sociological and legal doctrines that control the legal status of children in society. The course will cover the topics of delinquency, dependency, neglect, abuse, and special educational needs.

LGS 263 Law and Popular Culture/3 sem. hrs. This course examines how the legal system is presented in various popular media, particularly film. Attention will be paid to the conflict between the aesthetic requirements, the medium in question and actual practices of the legal profession. **Identical to HUM 263.**

LGS 281 Practicum in Community Law/1-3 sem. hrs. Experience in applying legal studies in the community through placement in a law or law-related work experience. Supervision on-site and by the Academic Division. Credit(s) earned may not be applied to LGS 450. **Prerequisites: LGS 201 and written approval of the Coordinator of Legal Studies major.**

LGS 301 Constitutional History I/3 sem. hrs. A study of the origin and development of the American constitutional system from the colonial period to 1870. The course will examine seminal decisions of the United States Supreme Court during this period in their political, social, and economic context. **Prerequisite: LGS 201.**

LGS 302 Constitutional History II/3 sem. hrs. Continuation of the study of the constitutional system of the United States. The course covers the period 1870 to the present with special emphasis on Supreme Court decisions in the areas of federal-state relations, individual liberties, and civil rights. **Prerequisite: LGS 301.**

LGS 326 Law and American Culture/3 sem. hrs. Explores the relationship of law to American culture at different historical moments. Emphasis is placed upon the cultural values, world view, and assumptions of the culture as it shapes the legal mind. **Identical to HUM 326.**

LGS 330 History of Political Thought/3 sem. hrs. A study of political philosophy from the ancients to the present. To include the major philosophical schools and their spokesmen. Presented with the context of significant historical trends. **Identical to HIS 330 and POL 330.**

LGS 405 Civil and Political Liberties/3 sem. hrs. A survey of the philosophical basis and actual development of civil and political liberties in the United States. The course primarily examines the leading United States Supreme Court cases in the area. **Prerequisites: LGS 201, 302.**

LGS 426 Law and the American Mind/3 sem. hrs. The study of the development of American jurisprudence and legal thought within the context of the American intellectual climate. The course seeks the relationship between the patterns of legal thought and the changing American mind.

LGS 430 Legal Research/Writing and Mock Trial/6 sem. hrs An integrated approach to the fundamentals of legal research and writing, trial advocacy, and basic evidentiary concepts. Each student is required to research and prepare written and oral arguments and prepare and try a mock trial. **Prerequisite: LGS 201.**

LGS 441 International Law/3 sem. hrs. Introduction to the basic legal principles governing the relations between nations. Topics include recognition of states, jurisdiction, human rights, treaties and agreements, law of the sea, and claims against nations. **Prerequisites:** LGS 201, 302.

LGS 450 Senior Directed Study Project/6 sem. hrs. Seniors in the major will be required to apply their legal skills to a directed study project that examines in depth a topical issue related to the law and society. This may involve a research paper, judicial or practitioner internship, work with public interest groups, legal services programs, or other law-oriented experience. Individual faculty sponsorship is required. **Prerequisites:** Senior standing, LGS 302, 310, 420.

LGS 481 Advanced Practicum in Community Law/1-3 sem. hrs. Experience in applying legal studies in the community through placement in a law or law-related work experience. Supervision on-site and by the Academic Division. Credit(s) earned may not be applied to LGS 450. **Prerequisites:** LGS 201 and written approval of the Coordinator of Legal Studies major.

LIFE SCIENCES (LSC)

LSC 102 Concepts in Life Sciences/3 sem. hrs. (COR 132, SCI 2018) An introductory course emphasizing concepts, principles, and problems of the life sciences and their relevance to significant issues confronting man. Emphasis is placed on interdisciplinary approaches essential to the improvement of the resources, environment, culture, and well-being of man.

LSC 104 Environmental Studies/3 sem. hrs. Overview of environmental science that integrates social, economic, technical, and political issues. Problems of ecological disruptions, growth of human populations, land use, energy, nuclear power, food supplies, pesticides, and pollution are covered. **Identical to PHY 204.**

LSC 105 Concepts in Biology/3 sem. hrs. This course is designed to explore the major concepts in biology from the cell to the behavior of the whole integrated plant and animal. This course is intended for nonscience students.

LSC 211 Human Sexuality/3 sem. hrs. (BES 350, PSY 413) Anatomy and physiology of the human sexual system, human sexual response, the range of sexual behaviors, and sources of attitudes and beliefs about sexuality. **Identical to PSY 211.**

LSC 301 Anatomy and Physiology of the Vocal Mechanism/3 sem. hrs. Introduction to the anatomy, physiology, and neurophysiology of the vocal mechanism.

LSC 302 Anatomy and Physiology of Hearing/3 sem. hrs. Introduction to the anatomy, physiology, and neuroanatomy of the auditory system.

LSC 357 The Psychology and Physiology of Substance Abuse/3 sem. hrs. The pharmacology and physiology of alcohol and drug use and the psychological effects of psychoactive drugs. The nature of addiction and the disease concept, diagnostic criteria for chemical dependency, and the physical and psychiatric disorders related to substance abuse. **Identical to PSY 357.**

LSC 364 Current Perspectives in Substance Abuse/3 sem. hrs. An overview of the major drugs of abuse in American society today. Includes health and legal issues related to substance abuse, and resources available for the treatment of chemical dependency and other drug-related problems. **Identical to PSY 364.** (Students may not receive credit for this course and for LSC/PSY 365.)

LSC 365 Substance Abuse and Athletics/3 sem. hrs. Covers the major drugs of abuse and the potential health risks associated with these. Covers psychoactive drugs (including alcohol), steroids, blood doping, and nutritional supplements. **Identical to PSY 365.** (Students may not receive credit for this course and for LSC/PSY 364.)

MANAGEMENT (MGT)

MGT 141 Personal Career Development/3 sem. hrs. The process of career development applied to one's self-identifying vocational interests and aptitudes, obtaining information about occupations, gaining experiences through practicums and cooperative education, and establishing career plans. Useful for students adjusting to the college role. **Identical to EDU 141 and PSY 141.**

MGT 205 Principles of Management/3 sem. hrs. (BUS 111, 205) An overview of the historical development of management theory, the distinct schools of management thought, the functions and processes of management, and the environment within which the modern manager operates.

MGT 221 Budgeting, Controlling, and Planning/3 sem. hrs. Fundamental concepts of budgeting with emphasis on process. Management uses of planning and controlling in business. Historical and standard costing, funds flow analysis, tax planning, and business decision rules. Essentials of risk management, long term financing of firms. Analysis of appropriate methods to manage static risk, capital budgeting, mergers, and failures. **Prerequisite:** ACT 205, CS 112.

MGT 251 Supervisory Skills/3 sem. hrs. (BUS 251) A study of the fundamentals of supervision. Leadership styles, responsibility, and authority and how they relate to efficient supervision. **Prerequisite:** MGT 205.

MGT 260 Public Policy and Its Administration/3 sem. hrs. (POL 360) The nature and scope of public administration: principles, societal protection, assistance to various groups, governmental proprietary enterprises, and regulation of business. Bureaucratic organization, administration relationships, and policy making are also included.

MGT 291-299 Special Topics/3 sem. hrs. Topics in management that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for special topics covering different content.

MGT 302 Organizational Communication/3 sem. hrs. Survey course of communication in organizations. Topics covered are formal and informal communication networks, communication roles, communication audits, and organizational barriers to effective communication. Skills building emphasis.

MGT 307 Stress Management/3 sem. hrs. (MGT 492) This course examines the process and complexities of stress management, its impact on the workplace, and the overall quality of work life in an organization. Stressful events and conditions will be presented and analyzed from three perspectives: individual vulnerability to stressors, the environment in which that vulnerability is exposed to stressors, and the resulting behavioral symptoms.

MGT 315 Personnel Administration/3 sem. hrs. (BUS 231, 315) Modern personnel policies, techniques, and methods. The development of sound wage and salary structures; the development of valid standards of personnel selection and placement; the use of psychological testing; interviewing techniques. **Prerequisite:** MGT 205.

MGT 317 Organization Behavior/3 sem. hrs. (BUS 241, 317) An overview of the informal, people-centered aspects of organization. Topics include: motivation, leadership style, and various human relations-oriented theories. The interaction of the individual and the organization as a dynamic interplay that affects total organizational effectiveness. The role of effective communications in the organization. **Prerequisite:** MGT 205.

MGT 355 International Management/3 sem. hrs. The context of international management, organization of multinational firms, cultural and environmental issues, organizational problems in international operations, planning and control, international financial management, international personnel management, relations with host governments, comparative management. **Prerequisites:** BUS 255, MGT 205.

MGT 356 Substance Abuse in Business and Industry/3 sem. hrs. Scope and cost of alcohol and other drug-related problems in American business and industry today, and the role of managers and supervisors in dealing with these problems. The formulation of company policies regarding substance abuse, effective educational and intervention programs, and strategies for implementing these. **Identical to PSY 356.**

MGT 366 Management Information Systems/3 sem. hrs. (BUS 300) This course offers a broad coverage of computer use, database management, and information system fundamentals for managers living in an increasingly complex information society.

MGT 373 Hotel Management/3 sem. hrs. Comprehensive survey of all phases of hotel management including staffing, sales, reservations, front office, introduction to food and beverage, housekeeping, and engineering. Also considers accounting and control systems.

MGT 375 Food and Beverage Management/3 sem. hrs. An examination of the food and beverage segment of the hospitality industry. Management techniques are related to all types of restaurants ranging from fast food to gourmet.

MGT 377 Production and Inventory Control/3 sem. hrs. Analysis of production systems, materials flow networks, methods of control and forecasting of market and resource activities. Examination of criteria for determining output, pricing (economic order quotients and capital cost), investment (capital budgeting), concept of profit centers, and cost functions. **Prerequisite:** BUS 371.

MGT 388 Operations Management/3 sem. hrs. Management of operations within the manufacturing sector; control of production operations, maintenance of quality of output and techniques for planning, and scheduling manufacturing operations. **Prerequisite:** MGT 377.

MGT 401 Health Care Organization and Administration/3 sem. hrs. (HCS 401) An examination of health care organization in the U.S. from a systems perspective. Administrative implications of the various types of health care organization models. Offered in HCS only.

MGT 402 Legal Aspects of Health Care Administration/3 sem. hrs. (HCS 402) A study of legal liabilities and responsibilities of health care institutions and professionals; federal, state, and local statutes for provision and regulation of health services and facilities. Offered in HCS only.

MGT 415 Legal Environment of Management/3 sem. hrs. A macro law course emphasizing public law and regulation of business. Examines relationships such as employer-employee, labor management, debtor-creditor, and buyer-seller.

MGT 425 Human Resource Management/3 sem. hrs. (BUS 415, 425, 441) A capstone course in the behavioral management area that is in a seminar format. Topics to be covered are the HRM function in organizations, with specific emphasis on training, development, and career pathing of employees; stress management; labor relations and negotiations. **Prerequisites:** MGT 315, 317.

MGT 441 Physical Distribution and Transportation/3 sem. hrs. Nature, organization, and administration of physical distribution and transportation systems. Fundamentals and development of transport networks and economic changes due to demographic exchanges, technology advancements, or political pressures. Focus on distribution activities and transport modes as they relate to problems and solutions of logistics for material in process of transit and for the finished product. **Prerequisites:** ECO 201, 202, and approval of Academic Division.

MGT 445 Labor Relations/3 sem. hrs. An examination of labor relations in depth covering collective bargaining, contract negotiation, contract administration, mediation, and arbitration. Includes an in-depth examination of labor legislation. **Prerequisite:** MGT 315.

MGT 477 Inventory Systems/3 sem. hrs. Inventory processes analyzed through stochastic (forecasting) models. Concepts of optimal policy in a constrained inventory system. Analysis of distribution systems for multi-item and single-item production and marketing. Application of dynamic programming utilizing deterministic and probabilistic inventory models, economic order quotients, and other financial ratios. **Prerequisites:** BUS 409, MGT 388.

MGT 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in management that are not included in regular course offerings. Specific content and possible prerequisites are announced in the course schedule for a given term. Students may re-enroll for special topics covering different content.

MARKETING (MKT)

MKT 101 Introduction to Marketing/3 sem. hrs. An overview of the field with special attention to formulating an effective marketing mix. Topics include estimation of demand, consumer behavior, adaptation of products to markets, selection of channels of distribution, and development of effective promotional and pricing strategies. Students may not receive credit for this course and MKT 391.

MKT 211 Sales Management/3 sem. hrs. Emphasizes sales force management. Topics include selection, training, compensation, motivation, and evaluation of sales personnel. Various sales strategies appropriate to different markets are covered. **Prerequisite:** MKT 101.

MKT 221 Retail Management/3 sem. hrs. Establishing an effective marketing mix specific to the retail establishment. Basic concepts behind organizational structure, store location, personnel selection, merchandising, promotion, and service. Use of certain analytical tools to aid in establishing the appropriate mix. **Prerequisite:** MKT 101.

MKT 291-299 Special Topics/3 sem. hrs. Topics in marketing that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for special topics covering different content.

MKT 301 Channels of Distribution/3 sem. hrs. The particular role of marketing channels in establishing an effective marketing mix. Physical distribution problems as well as the role of wholesalers, retailers, and the various types of specialized middlemen. **Prerequisite:** MKT 101.

MKT 321 Advertising and Sales Promotion/3 sem. hrs. (MKT 311, 483) Introduces the basic principles and concepts of marketing communication. Focus is on the development and implementation of effective advertising campaigns and sales promotional plans for business on a local, regional, and national basis. **Prerequisite:** MKT 101.

MKT 353 International Marketing/3 sem. hrs. (MKT 255, 492) The scope of international marketing, the structure of multinational markets, foreign market research, international advertising and promotion, international distribution channels, international product policy, international pricing policy, export/import management. **Prerequisites:** BUS 255, MKT 101.

MKT 391 Principles of Marketing/3 sem. hrs. A survey course in marketing for professional managers. Topics include meeting customer needs through product planning, pricing, promotion, and distribution. Students apply principles through marketing planning assignments. Students may not receive credit for this course and MKT 101.

MKT 431 Consumer Behavior/3 sem. hrs. The analysis of the effectiveness of various marketing strategies in terms of yielding the desired consumer responses. The push versus pull strategy, the selling approach versus the marketing approach, and other topics. **Prerequisites:** MGT 317, MKT 101.

MKT 455 Export/Import Marketing/3 sem. hrs. (MKT 355) Managing the export/import department; government regulations affecting imports; financing, insuring, transporting, and marketing of exported or imported raw materials and finished products; methods of purchasing foreign products and selling domestic goods abroad; joint marketing; licensing; distributor relations. **Prerequisite:** MKT 255.

MKT 471 Marketing Strategy/3 sem. hrs. (MKT 451, 452, 453, 481) The planning, organization, implementation, and control of marketing activities from the viewpoint of the marketing executive. Topics include strategic planning and policy formulation; the use of marketing research; test marketing of products and intercompany coordination of pricing, promotion, and physical distribution strategies. **Prerequisites:** MKT 301, 321.

MKT 475 Marketing in the Hospitality Industry/3 sem. hrs. Applies marketing principles to hotels and restaurants in the local, national, and international markets. Emphasizes importance of strategic marketing to the hospitality industry. **Prerequisite:** MKT 101.

MKT 491-498 Advanced Special Topics/3 sem. hrs. (MKT 331) Advanced topics in marketing that are not included in the regular course offerings. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll for special topics covering different content.

MATHEMATICS (MAT)

MAT 101 General Mathematics/3 sem. hrs. Application of basic mathematical operations. Problem solving techniques. Introduction to basic algebraic concepts and graphs. Appropriate for nonmath and nonscience majors. **Prerequisite:** Placement examination requirement satisfied.

MAT 102 Introductory Algebra/3 sem. hrs. A basic review of algebra including algebraic terminology, polynomials and applications. Appropriate for nonmath and nonscience majors. **Prerequisite:** Placement examination requirements satisfied or MAT 101.

MAT 105 College Algebra/3 sem. hrs. Includes topics such as fundamental operations, functions and graphs, linear and quadratic equations, and conic sections. **Prerequisite:** Placement examination requirements satisfied or MAT 102.

MAT 133 Mathematical Way of Thinking/3 sem. hrs. (COR 133, 1018) An introduction to sets, logic, number systems, algebra, consumer math, geometry, and probability and statistics. Appropriate for nonmath and nonscience majors. **Prerequisite:** Placement examination requirement satisfied or MAT 102.

MAT 150 Precalculus/3 sem. hrs. Review of algebra, trigonometric functions, graphs of functions, logarithms, exponents, functions of the natural number. Introduction to calculus, concept of limits, integrals. **Prerequisite:** Placement examination requirements satisfied or MAT 105.

MAT 200 Optimization and Information Theory/3 sem. hrs. (TC 200) Development of techniques applied to telecommunication systems for solution of problems solved by Queueing Theory, Information Theory, Operations Research, Statistics and Topology. **Prerequisites:** MAT 150, MAT 302.

MAT 210 Calculus I/3 sem. hrs. Functions, limits, derivatives of algebraic functions. Introduction to derivatives of trigonometric functions, logarithmic functions, application of derivatives to physics problems, related rates and maximum/minimum problems, definite and indefinite integrals with applications. **Prerequisite:** MAT 150.

MAT 220 Calculus II/3 sem. hrs. Riemann sums, the definite integral, methods of integration, continuation of exponential, logarithmic functions, inverse trigonometric functions. L'Hopital's rule and improper integrals. **Prerequisite:** MAT 210.

MAT 302 Applied Statistics/3 sem. hrs. (BUS 309, MAT 201, 202, MGT 301, PSY 301) Descriptive and inferential statistics relevant to applied research, data sets, frequency distributions, probability, sampling, estimating, hypothesis testing, chi-square and ANOVA, regression and correlation, and nonparametric measures. **Prerequisites:** MAT 133 or higher and mathematics competency examination requirement satisfied.

MAT 305 Calculus III/3 sem. hrs. Sequences and series. Taylor series, vector analysis, functions of several variables, partial derivatives, total differential chain rule, multiple integral and application functions of a complex variable. **Prerequisite:** MAT 220.

MAT 310 Differential Equations/3 sem. hrs. Solving first order ordinary differential equations, exact, separable, and linear. Applications to rates and mechanics, theory of higher order linear differential equations. Methods of undetermined coefficients and variation of parameters, application to vibration, mass and electric circuits, power series solutions. Partial differential equations and their application to electronics and electrical engineering problems, solutions of initial boundary problems. Fourier series and Fourier transforms, inhomogenous problems, introduction to numerical methods. Laplace transforms. **Prerequisite:** MAT 305.

MAT 440 Numerical Analysis/3 sem. hrs. Solution of algebraic and transcendental equations by a number of iterative methods, discussion of convergence considerations, probability and statistical theory, numerical integrator of a number of types of problems will be discussed both in theory and in practice through the use of computer problem solving. **Prerequisites:** MAT 220 and PHY 240, 250; CS 210 or CS 330.

MAT 450 Probability and Statistics/3 sem. hrs. Probability function, random events, expectation, conditional probability distribution functions, foundations of statistics. **Prerequisite:** MAT 210.

ORIENTATION (ORI)

ORI 101 New Student Orientation/1 sem. hr. The purpose of this course is to provide information and help students develop skills and attitudes necessary to maximize their potential for adjustment and academic success at Nova College. Students will be expected to complete this course during the first eight weeks.

PHYSICAL SCIENCES (PHY)

PHY 102 Concepts in Physical Science/3 sem. hrs. (COR 131, SCI 2018) Interactions of the geosphere-hydrosphere-atmosphere are used as a means of exploring basic concepts in physical science. Emphasis is on scientific processes and skills with an equal mix of field experiences, readings, and class participation.

PHY 103 Introduction to Geology/3 sem. hrs. An introductory course that will provide an understanding of the earth's composition and structure, an explanation of the processes that affect the earth and the resulting features, a description of the physical evolution of the major mountains and oceans, a description of biological evolution in relation to ancient geologic environments, and an analysis of earth's resources and implications for the future.

PHY 104 Environmental Studies/3 sem. hrs. Overview of environmental science that integrates social, economic, technical, and political issues. Problems of ecological disruptions, growth of human populations, land use, energy, nuclear power, food supplies, pesticides, and pollution are covered. **Identical to LSC 104.**

PHY 105 Introduction to Chemistry/3 sem. hrs. Nonlaboratory course that presents an introduction to the elementary principles of chemistry. A study of the structure of matter and the transformation it undergoes.

PHY 106 Introduction to Oceanography/3 sem. hrs. Examination of the physical, chemical, biological, and geological properties of the world ocean will be conducted. The interdisciplinary approach will introduce concepts important in understanding the development and current status of oceanographic research for the nonscience major.

PHY 220 Introduction to Astronomy/3 sem. hrs. An introduction to astronomy that examines in brief both the solar system and the universe. Topics include: fundamentals and history of astronomy, study of the earth, moon, planets, and optical instruments used in astronomy. In addition, the sun, stars, galaxies, and cosmology are examined.

PHY 226 Conservation of Natural Resources/3 sem. hrs. Study of the natural resources within the framework of the man-environment system. Included are problems relating to pollution, populations, technology, growth, conservation of the environment and developmental planning as they relate to the various geographic areas of the western world and the non-western world. **Identical to GEO 226.**

PHY 240 Physics I/3 sem. hrs. Basic principles of mechanics including vectors, force, equilibrium, displacement, velocity, acceleration, mass. Newton's Laws, work energy, gravitation, momentum, rotational motion, mechanics of systems of particles and rigid bodies. **Prerequisite:** MAT 220.

PHY 250 Physics II/3 sem. hrs. Electrostatics, electric currents, electric fields and electric potential, AC and DC circuits, magnetic fields, capacitance, inductance, and electromagnetic waves. **Prerequisite:** MAT 220, PHY 240.

PHY 291-299 Special Topics/3 sem. hrs. Topics in physical science that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for Special Topics covering differing content.

PHY 301 Acoustics of Speech and Hearing/3 sem. hrs. Introduction to the physics of sound and phonetics as related to speech communication.

PHY 312 Science of Matter/3 sem. hrs. (PHY 212) Introductory course in the science of materials, review of atomic theory, atomic bonding and periodic table, chemical equations, states of matter, structure of crystals, nature of crystal imperfections and atom movements, metallic and ceramic materials and their properties, multiphase materials, and equilibrium relationships. **Prerequisites:** PHY 240, 250.

POLITICS AND PUBLIC AFFAIRS (POL)

POL 101 American Government and Politics/3 sem. hrs. (HUM 2700) An introduction to the processes of the American national and local forms of government. Included are the nature and structure of government, its characteristics and functions, and the intimate relation of government to other interests.

POL 201 Comparative Government/3 sem. hrs. Major foreign political systems including political forces, parties, ideologies and institutions. Attention will also be given to the characteristics and development of statehood and power, conditions of stability, constitutions, and the comparative political processes.

POL 291-299 Special Topics/3 sem. hrs. Topics in politics and public affairs that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for Special Topics covering differing content.

POL 312 Judicial Behavior/3 sem. hrs. The American judicial branch of government with emphasis on the behavior of judges and other participants in the legal system, the social impact of judicial decisions and policies, and the methods of selecting judges. **Prerequisite:** POL 101.

POL 330 History of Political Thought/3 sem. hrs. (POL 310, POL 401) A study of political philosophy from the ancients to the present. To include the major philosophical schools and their spokesmen. Presented within the context of significant historical trends. **Identical to HIS 330 and LGS 330.**

POL 460 Studies in Revolution/3 sem. hrs. (SSI 460) The major forces which have shaped the revolutionary impulse in the 18th through the 20th century. Emphasis upon the great revolutions: American, French, Russian, and Chinese—the background, the underlying reasons, ideals, patterns of their growth and their effects upon the course of history. **Identical to HIS 460.**

POL 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in politics and public affairs that are not included in regular course offerings. Specific content and possible prerequisites are announced in the course schedule for a given term. Students may re-enroll for Special Topics covering different content.

POL 499 Independent Study in Political Science/1-12 sem. hrs. The student selects, and carries out independently, library and/or empirical research. Faculty supervision is provided on an individual basis. **Prerequisite:** Written consent of Instructor and Division Director.

PSYCHOLOGY (PSY)

PSY 111 Principles of Behavior/3 sem. hrs. (BES 1018, COR 111, PSY 101, 201) An introduction to theory, research, and applications in the field of psychology. Topics include biological bases of behavior, perception, motivation, learning and memory, psychological development, personality, social psychology, and the identification and treatment of mental illness.

PSY 141 Personal Career Development/3 sem. hrs. The process of career development applied to one's self: identifying vocational interests and aptitudes, obtaining information about occupations, gaining experience through practicums and cooperative education, and establishing career plans. Useful for students adjusting to the college role. **Identical to EDU 141 and MGT 141.**

PSY 211 Human Sexuality/3 sem. hrs. (BES 350, PSY 413) Anatomy and physiology of the human sexual system, human sexual response, the range of sexual behaviors, and sources of attitudes and beliefs about sexuality. **Identical to LSC 211.**

PSY 213 Family Relationship Skills/3 sem. hrs. (BES 305, SOC 231, 331) Contemporary patterns of marriage and family living. Approaches to effective living together in family units. Coverage of both adult and parent-child relationships. Emphasis on communication, supportiveness, and contingency management. Experiential learning included. **Identical to SOC 213.**

PSY 238 Child and Adolescent Development/3 sem. hrs. (EDU 338, PSY 201, 338) Aspects of growth and development during childhood and adolescence: physiological, cognitive, personality, and social. **Prerequisite:** PSY 111.

PSY 239 Adulthood and Aging/3 sem. hrs. (PSY 202, 339) Developmental experiences of maturity. Physiological and psychological aspects of aging. **Prerequisite:** PSY 111.

PSY 280 Introductory Practicum/1-6 sem. hrs. An introductory field experience to broaden the student's education. Placement in a research setting, community agency, or human resource department. Report required. Supervision on-site and by the Academic Division. **Prerequisites:** PSY 111 and prior written approval by the Division Director.

PSY 291-299 Special Topics/3 sem. hrs. Topics in psychology that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for Special Topics covering different content.

PSY 300 Psychological Research Methods/3 sem. hrs. (HSC 302, PSY 302) Research designs commonly used in psychology: observational, experimental, and quasi-experimental. Steps in doing research including use of the APA format for writing reports. **Prerequisites:** LAN 112, MAT 302 (may be taken as co-requisite), PSY 111 and passed Writing Competency Exam.

PSY 303 Experimental Psychology (Laboratory)/3 sem. hrs. Laboratory experience in various areas of experimental psychology. Covers experiments and reports on sensation and perception, motivation, learning and memory, and the measurement of ability and personality factors. **Prerequisite:** PSY 111.

PSY 305 Psychology and the Criminal Justice System/3 sem. hrs. An analysis of the psychological factors that influence the administration of criminal justice, from the commission of crime through arrest, pre-trial, trial, sentencing, and parole procedures. **Identical to LGS 305.**

PSY 308 Cooperative Education/no credit. Work placement for a period of 16-18 weeks. The placement will be directly related to the student's program of study.

PSY 311 Interpersonal Communication/3 sem. hrs. Study of human communications, interpersonal relationships, and small group dynamics. Topics include verbal and nonverbal behavior, development of relationships and groups, assertiveness and leadership. Experiential learning included.

PSY 316 Issues in Social Psychology/3 sem. hrs. Social determinants of individual behavior. Psychological issues of current social relevance such as attraction, propaganda and TV advertising, aggression and TV violence, prejudice, and conformity. **Prerequisite: PSY 111.**

PSY 321 Personality/3 sem. hrs. (PSY 310) Survey of psychoanalytic, humanistic, and behavioral theories of personality. Current issues and personality research. **Prerequisite: PSY 111.**

PSY 326 Abnormal Psychology/3 sem. hrs. (PSY 440) Diagnoses, causes, and prognoses for the various categories of psychological disorders. Case studies supplement and illustrate theory and research. **Prerequisite: PSY 111.**

PSY 330 Behavior Modification/3 sem. hrs. (PSY 441) Application of conditioning and social learning principles to mild and severe behavioral problems of individuals and families. **Prerequisite: PSY 111.**

PSY 345 Interviewing/3 sem. hrs. (PSY 202, 346) General principles of effective interviewing. Skills and techniques for achieving various interview goals, with an emphasis on counseling interviews and the establishment of helping relationships. **Prerequisite: PSY 111.**

PSY 350 Community Psychology/3 sem. hrs. Prevention, recognition and mobilization of individual and community resources for helping solve psychological problems. The role of psychologically trained change agents in the human services field. **Prerequisite: PSY 111.**

PSY 351 Human Learning and Cognition/3 sem. hrs. (PSY 320, 451) Theories and research concerning human learning and cognition. Covers conditioning, verbal learning, memory, and problem solving. **Prerequisite: PSY 111.**

PSY 354 Substance Abuse: Historical and Legal Perspectives/3 sem. hrs. The role of alcohol and other drugs in American society today. Includes a historical overview of psychoactive drug use and abuse, the classification of drugs currently in use, and legal issues related to substance abuse. **Identical to SOC 354.**

PSY 355 Substance Abuse and the Family/3 sem. hrs. Family problems related to the abuse of alcohol and other psychoactive drugs. An examination of the changes in family functioning that accompany chemical dependency. Attention given to the concept of substance abuse as a family illness and the role of family members in the recovery process. **Identical to SOC 355.**

PSY 356 Substance Abuse in Business and Industry/3 sem. hrs. Scope and cost of alcohol and other drug-related problems in American business and industry today, and the role of managers and supervisors in dealing with these problems. The formulation of company policies regarding substance abuse, effective educational and intervention programs, and strategies for implementing these. **Identical to MGT 356.**

PSY 357 The Psychology and Physiology of Substance Abuse/3 sem. hrs. The pharmacology and physiology of alcohol and drug use and the psychological effects of psychoactive drugs. The nature of addiction and the disease concept, diagnostic criteria for chemical dependency, and the physical and psychiatric disorders related to substance abuse. **Identical to LSC 357.**

PSY 358 Rehabilitation Strategies for Substance Abuse/3 sem. hrs. Focuses on the various types of therapeutic approaches that may be successfully employed in the treatment of substance abuse problems and the types of facilities available for such treatment. Covers the stages of recovery from chemical dependency, evaluation and treatment planning, and the application of specific treatment techniques.

PSY 359 Self-Help Groups/3 sem. hrs. Examines the history and scope of the self-help group movement in the U.S. and the role of these groups in helping people deal with life problems. Covers the structure, traditions and program of Alcoholics Anonymous as well as the utilization of AA and other groups as a resource for substance abuse rehabilitation.

PSY 360 Substance Abuse Intervention in the Schools/3 sem. hrs. This course covers the classification and identification of drugs, as well as the behavioral criteria for recognizing alcohol and drug abuse. Attention is given to prevention, intervention and counseling techniques, as well as legal issues related to student drug use. Also covered is the use of appropriate educational resources and services to assist students who show signs of alcohol or drug abuse. **Identical to EDU 360.**

PSY 361 Educational Strategies for Drug Prevention Programs/3 sem. hrs. This course focuses upon the development of effective drug prevention programs. Appropriate instructional techniques for substance abuse will be covered, as well as an examination of the drug prevention resources available. In addition, methods for evaluating the effectiveness of drug education programs will be examined. **Identical to EDU 361.**

PSY 364 Current Perspectives in Substance Abuse/3 sem. hrs. An overview of the major drugs of abuse in American society today. Includes health and legal issues related to substance abuse, and resources available for the treatment of chemical dependency and other drug-related problems. **Identical to LSC 364.** (Students may not receive credit for this course and for LSC/PSY 365)

PSY 365 Substance Abuse and Athletics/3 sem. hrs. Covers the major drugs of abuse and the potential health risks associated with these. Covers psychoactive drugs (including alcohol), steroids, blood doping, and nutritional supplements. **Identical to LSC 365.** (Students may not receive credit for this course and for LSC/PSY 364)

PSY 371 History and Theories of Psychology/3 sem. hrs. (PSY 471) The major historical and contemporary theories of psychology. Enduring issues in psychology. Psychology as a science. **Prerequisite: PSY 111.**

PSY 405 Psychological Tests and Measurements/3 sem. hrs. (PSY 340, 406) Theory and use of psychological tests of ability and personality. Covers the selection, administration, scoring, and interpretation of psychological tests. **Prerequisites:** MAT 302, PSY 111.

PSY 460 Biological Bases of Behavior/3 sem. hrs. (PSY/LSC 461) Genetic, neural, and endocrine bases of behavior. Neuroanatomy and chemical and electrical events in the nervous system. Sensory processes, motivation, emotion, and arousal. **Prerequisites:** LSC 105, PSY 111. **Identical to LSC 460.**

PSY 480 Practicum in Psychological Research/1-6 sem. hrs. Experience in doing research under the supervision of the Academic Division. Reading the relevant research literature, running subjects, analyzing data, and writing an APA format report. **Prerequisites:** PSY 302 and prior written approval by the Division Director.

PSY 481 Practicum in Community Psychology/1-6 sem. hrs. Experience in applying psychology in the community through placement in a human services agency. Report required. Supervision on-site and by the Academic Division. **Prerequisites:** PSY 311, 350 and prior written approval by the Division Director.

PSY 482 Practicum in Organizational Psychology/1-6 sem. hrs. Experience in applying psychology in an organization through placement in a personnel or training department. Report required. Supervision on-site and by the Academic Division. **Prerequisites:** MGT 315, PSY 345 or 405, and prior written approval by the Division Director.

PSY 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in psychology that are not included in regular course offerings. Specific content and possible prerequisites are announced in the course schedule for a given term. Students may re-enroll for Special Topics covering different content.

PSY 499 Independent Study in Psychology/1-12 sem. hrs. The student selects, and carries out independently, library and/or empirical research. Faculty supervision is provided on an individual basis. **Prerequisite:** PSY 302 and written consent of Instructor and Division Director.

SOCIOLOGY (SOC)

SOC 112 Human Origins and Diversity/3 sem. hrs. (BES 2028, COR 112, SOC 211) The discoveries of physical anthropology concerning early hominids and their ecological adaptations. Neolithic cultural patterns and technologies. Ethnographies of diverse cultures.

SOC 202 Introduction to Sociology/3 sem. hrs. (BES 2018, SOC 101, 201) The nature and needs of man and society, groups and institutions, social processes, and social change. Special emphasis will be placed on American culture and the impact of technology on modern man.

SOC 213 Family Relationships/3 sem. hrs. (BES 305, SOC 231, 331) Contemporary patterns of marriage and family living. Approaches to effective living together in family units. Coverage of both adult and parent-child relationships. Emphasis on communication, supportiveness, and contingency management. Experiential learning included. **Identical to PSY 213.**

SOC 222 The Modern City/3 sem. hrs. Origins of the city. Cities as physical, social, and economic systems. Comparative studies of cities. **Identical to GEO 222.**

SOC 231 Contemporary Life Styles/3 sem. hrs. (SOC 331) The emergence of alternative lifestyles in American culture. Contemporary patterns of marriage, the family, and single life. Family disorganization and divorce.

SOC 291-299 Special Topics/3 sem. hrs. Topics in sociology that are not included in regular course offerings and may be taken without prerequisites. Specific content is announced in the course schedule for a given term. Students may re-enroll for Special Topics covering different content.

SOC 302 Community Services Systems/3 sem. hrs. (HCS 302) An overview of community service institutions to assist the health care professional in meeting patients' needs. Discussion of professional issues related to community services. Offered only in HCS.

SOC 303 Transcultural Issues in Health Care/3 sem. hrs. (HCS 303) Concepts of the social sciences as they relate to the work of the health professional. Identification of economic, social, cultural, and environmental factors that affect health care. Offered only in HCS.

SOC 354 Substance Abuse: Historical and Legal Perspectives/3 sem. hrs. The role of alcohol and other drugs in American society today. Includes a historical overview of psychoactive drug use and abuse, the classification of drugs currently in use, and legal issues related to substance abuse. **Identical to PSY 354.**

SOC 355 Substance Abuse and the Family/3 sem. hrs. Family problems related to the abuse of alcohol and other psychoactive drugs. An examination of the changes in family functioning that accompany chemical dependency. Attention given to the concept of substance abuse as a family illness and the role of family members in the recovery process. **Identical to PSY 355.**

SOC 430 Juvenile Crime and Justice/3 sem. hrs. Advanced study of special characteristics and causes of juvenile crime. Principles and practices for its prevention and control. The administration of juvenile justice. **Prerequisite:** SOC 101. **Identical to CRJ 430.**

SOC 485-488 Field Study/3-12 sem. hrs. A field experience relating to selected topics in Latin American and Caribbean Studies. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll for Field Study experiences covering different topics and cultures.

SOC 491-498 Advanced Special Topics/3 sem. hrs. Advanced topics in sociology that are not included in regular course offerings. Specific content and prerequisites are announced in the course schedule for a given term. Students may re-enroll for Special Topics covering different content.

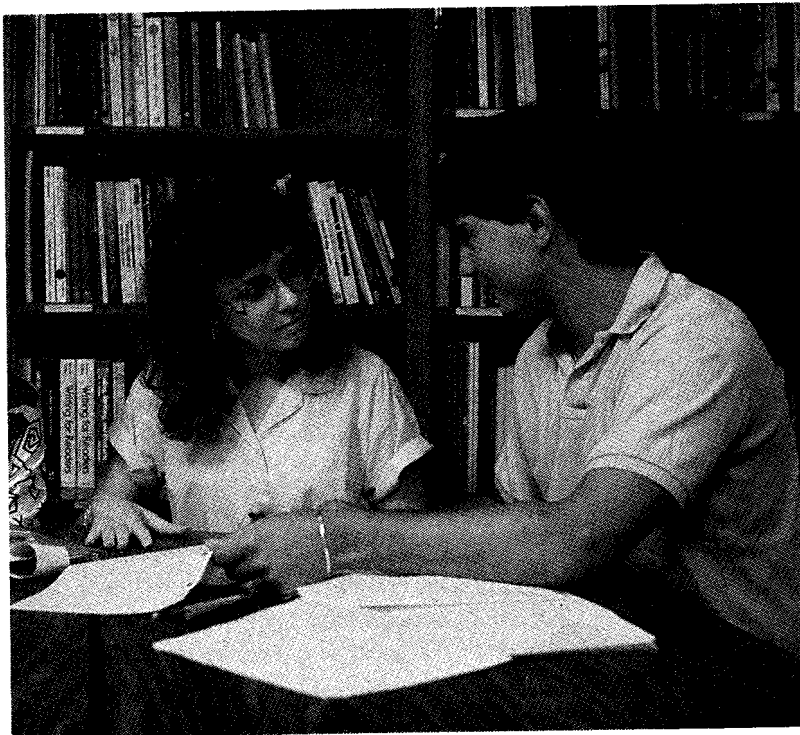
TELECOMMUNICATIONS (TC)

TC 205 Electronics for Telecommunications/3 sem. hrs. An introduction to electronic systems for communications including signaling, modulation, demodulation, data transmission, switching, satellites, optical methods, test equipment, and error control. **Prerequisites:** TC 200, EE 305.

TC 300 Telecommunications Network Planning and Operations/3 sem. hrs. Development of techniques applied to telecommunication systems for the planning and operation of telecommunications networks. **Prerequisites:** CS 345, TC 200, TC 205.

TC 305 Telecommunications Software and Protocols/3 sem. hrs. Development of protocols by example for software support of telecommunications systems. **Prerequisites:** CS 345, TC 200.

TC 400 Telecommunications Economics and Policy/3 sem. hrs. Development of the economic and regulatory environment of modern telecommunications systems and the effects on planning, cost, and operations. **Prerequisites:** CS 345, TC 200.



PERSONNEL

